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Now more than ever, we're your one stop connectivity resource!



NEW!
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 HyperLink
brand wireless
products
inside

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 your next order**
 See back cover for details.

Your trusted one stop connectivity resource just got better

In today's economic climate, trust is the most important commodity. You need to know that every one of your business partners is committed to delivering complete high-quality solutions backed by unrivaled technical support.

For over 25 years, L-com has been leading the way with a full range of connectivity solutions and a commitment to service that has earned the loyalty and trust of customers worldwide. In these critical times when other companies are consistently lowering the bar, L-com is dedicated to offering you more products, more resources and more convenience than ever before.



■ More Product Depth and Breadth

We've expanded our product offerings by adding the entire HyperLink line of wireless components. Now you can find over 8,000 wired and wireless connectivity solutions right here, right now — including wireless technology designed for WiFi, WiMAX, SCADA, 802.11 a/b/g/n, RFID and Bluetooth applications.

■ More Resources

Not only has L-com brought the HyperLink product suite into our catalog and website, we've fully combined the two company's resources — our web sites, our catalogs, our sales forces and our support staff to serve you better.

■ More Convenience

Our legendary service and technical support for both wired and wireless products are now just one click or one phone call away. You'll find more Free educational tutorials, tips, Q&A sections and Free CAD models and comparison guides to help you select the right product for every project.

There's never been a better time to experience the L-com difference. Give us a call or visit us online and discover why we are your best choice for end-to-end solutions and superior service.

Thank you for being an L-com customer!



Ed Caselden
President & CEO



Zig Woronko
Chief Operating Officer

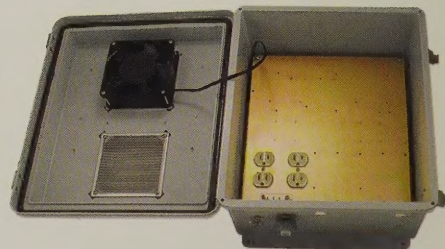


George Walter
Chief Financial Officer

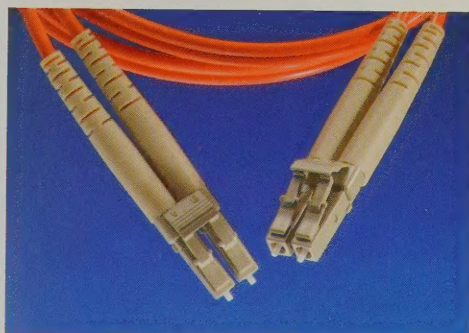
L-com Success Stories...

You can benefit by hearing how others use our products to solve their problems. Turn to page 2 or go to www.L-com.com/SuccessStories.

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weatherproof enclosures**
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**75 Ohm Coaxial
Cable Assemblies**
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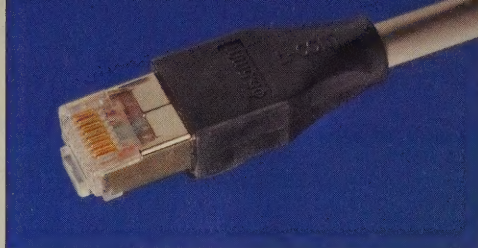


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Product Highlights

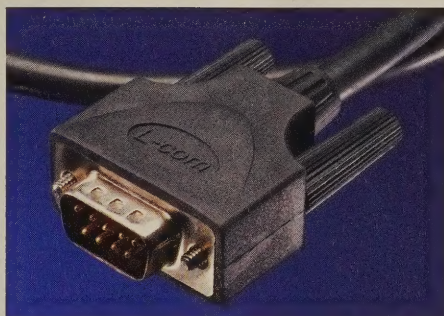
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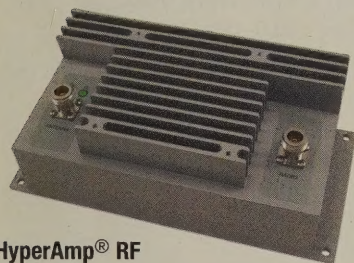
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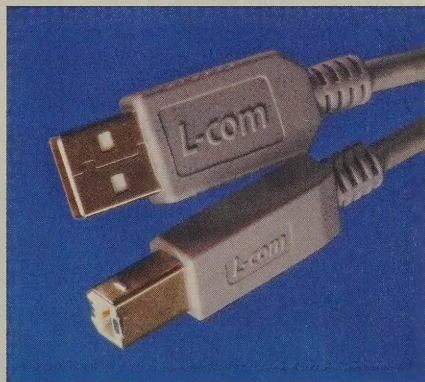
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**Premium USB
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Look for these helpful icons throughout our catalog:



Informative
tutorial



Online video
available



Helpful tip
available



Best selling
product



New product
added



Exclusive
product design
or feature



RoHS compliant and/or
partially compliant product

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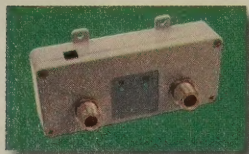
For more useful information go to....
www.L-com.com/Resources

Shop at **L-com.com** or call **1-800-343-1455**



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■ Wireless Antennas ■ Grid ■ Yagi ■ Omni ■ Patch ■ Rubber Duck
■ Panel ■ Array



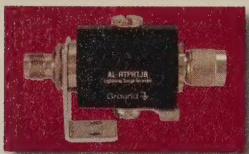
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■ Indoor ■ Outdoor ■ 900 MHz ■ 2.4 GHz ■ 5.8 GHz



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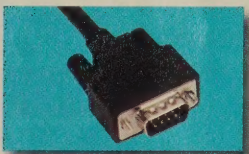
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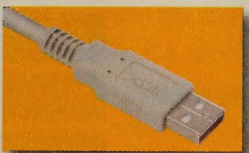
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■ Modular Jacks ■ Wall Plates and Surface Mount Boxes ■ Modular Plugs
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Terminator ■ Switch Boxes



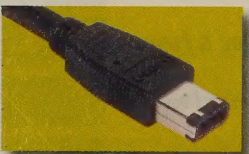
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Switches and Extenders ■ DVI/HDMI Extenders, Converters

L-com Serves and Protects



Problem

The University of New Hampshire's Project 54 design team needed a cost effective off-the-shelf cabling solution for its next generation voice activated police car control system.

Solution

L-com provided a combination of several off-the-shelf cables and custom built RJ45 Modular and D-Subminiature assemblies and adapters to meet the specific requirements of the Project 54 engineers on time and on budget.

How can L-com help you?

Call toll free 1-800-343-1455 or e-mail sales@L-com.com to get started.

Need help?

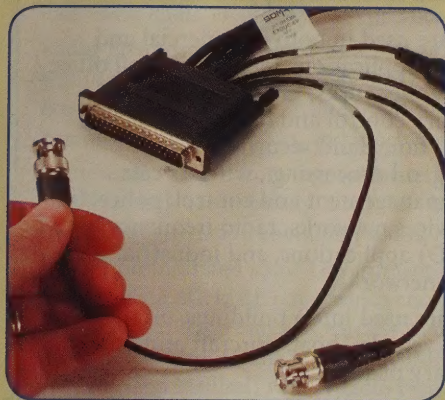
Please call our technical support staff toll free at 1-800-343-1455 if you have questions about your application



**Exceptional
Service
Does Exist!**

"I love your company. You always have everything I'm looking for, and great customer service." – Susan P.

L-com Relieves Strain on Cables



Problem

HBM, a leading provider of the Somat rugged mobile data acquisition hardware and software solutions for field and lab analysis, needed a more durable lower cost D-Subminiature cable assembly than the one they were using.

Solution

L-com's engineering team designed several custom cable assemblies using molded backshells to replace HBM's existing assemblies. Not only did the cables solve HBM's strain relief durability issues they also reduced their cost!

Check out other customer stories at www.L-com.com/SuccessStories

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■ Cable Assemblies ■ Connectors ■ Adapters, Couplers ■ Baluns ■ Bulk Cable (Spools) ■ Tools ■ Terminators ■ Test Leads



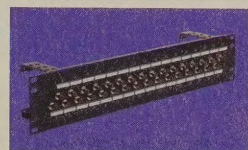
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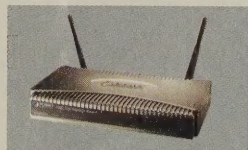
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Wireless Antenna Tutorial

What are Wireless Antennas?

Wireless antennas are the part of a radio communications system that radiate and/or collect radio frequency energy.

How are Wireless Antennas used?

Wireless antennas are typically connected via low loss coaxial cable either to an amplifier, splitter, filter or directly to a wireless access point or router. For outdoor applications wireless antennas are often attached via mounting clamps to a mast or to the side of a building via mounting brackets. Wireless Antennas used indoors are typically ceiling mounted or sometimes mounted high up on a wall.

Where are Wireless Antennas used?

Wireless antennas are used in many environments and for many applications. Models for both indoor and outdoor

use are available as well as specialty antennas such as Marine antennas used in nautical applications.

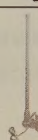
Wireless antennas are used in both commercial and military/government applications including small office / home office (SOHO) networks, Enterprise (office) networks, supervisory control and data acquisition (SCADA) networks, homeland security, factory automation, mining, oil processing, wireless cafe "hotspots", energy management and control, police, fire and emergency services networks, radio frequency identification (RFID) applications, and industrial science and medical (ISM) networks.

Wireless antennas are used in/on buildings, oil rigs, wind turbines, terrestrial vehicles, boats, aircraft and other mobile and stationary platforms.

A Critical Component for Every Wireless Application...

The selection of the correct antenna is paramount to achieving overall wireless system performance. L-com's HyperLink Brand of antennas offers a wide range of frequencies, antenna styles, gain specifications, and Beamwidth coverage for your wireless system applications and needs. When performance is essential, select the best HyperLink antenna to fit the application.

Antenna Configurations/Characteristics

	GRID - Range, Gain, Rugged Outdoor		LOG PERIODIC - Range, Narrow Beam
	DISH - Range, Gain, Narrow beam		PANEL - Gain, Wide Beam, Outdoor
	OMNI - 360° Coverage, Indoor/Outdoor		ARRAYS - 360° coverage, Gain, Range
	CEILING - 360° Coverage, Indoor		DIVERSITY - Multi-Band, Broad Band
	YAGI - Range, Narrow Beam, Gain		RUBBER DUCK - 360° Coverage, Access Points, Routers
	MOBILE MOUNT - 360° Coverage, Outdoor		MARINE - 360° Coverage, Nautical Environments

Frequencies Covered by L-com's HyperLink Brand Antennas

900MHz	3.5GHz	5.8GHz
1.2GHz	4.9GHz	Multi-Band
1.9GHz	5.1GHz	Very Broad-Band
2.4GHz	5.3GHz	Custom
2.6GHz	5.4GHz	



Wireless Infrastructure Tutorial and Primer

Wireless communication involves the transport of voice, video and data using Radio Frequency (RF) or Microwaves.

Radio Frequency is defined as a rate of oscillation or frequency within a range of approximately 3kHz to 300 GHz. Typical Radio Frequency applications include AM broadcasting, navigational beacons, wireless networks, and shortwave radio.

Microwaves range from approximately between 300MHz and 300GHz and are typically used for broadcast television, FM broadcasting, aviation communications, radar and satellite links.

Today's business and some Government networks typically utilize the 2.4GHz-5.8GHz RF range which encompasses one or several of the IEEE 802.11a, b and g, n wireless standards. Other popular RF frequencies used today include 900MHz for ISM (Industrial, Scientific and Medical) RFID (Radio Frequency Identification) and 1.9GHz for PCS (Personal Communication Service) applications.

Indoor (in building) RF Wireless Networks

When dealing with the installation and expansion of indoor wireless networks several factors must be considered. Most manufacturers of wireless access points and routers indicate a typical range that their equipment can provide. Usually these range estimates require line of sight which means you will need a clear unobstructed view of the antenna from the remote point in the link. In most cases there will be obstacles present in an indoor installation that could affect performance. Signals generally will not penetrate metal or concrete walls. Other factors that will reduce range and affect coverage area include metal studs in walls, concrete fiberboard walls, aluminum siding, foil-backed insulation in the walls or under the siding, pipes and electrical wiring, furniture and sources of interference. Other sources include other wireless equipment, cordless phones, microwave ovens, radio transmitters and other electrical equipment. Due to the increased gain, installing range extender antennas in the presence of interference could actually yield equal or worse range.

In wireless transmissions, reflections (when wireless signals "bounce" off objects) and multi-path (when wireless signals travel in multiple paths arriving at the receiver at different times) are as important as signal strength in determining the success of an installation. A signal will also exhibit peaks and nulls in its amplitude and alteration of its polarization (vertical or horizontal) when propagating through walls, ceilings and reflecting off metallic objects.

Wireless radios have special hardware and software to deal with multi-path and signal level nulls, but if the antenna is in a poor location, the radio will not be able to communicate. When trying to get the best performance in a location with a lot of barriers or reflections, it is important to be able to move the antenna in all three axes in order to minimize the effects of multi-path and optimize the signal strength.

Outdoor RF Wireless Networks

Outdoor RF wireless network experience the same factors such as reflections and multi-path as Indoor networks. For outdoor wireless installations clear line of sight is optimal. Trees and leaves are obstructions to 802.11 frequencies so they will partially or entirely block the signal if not cleared.

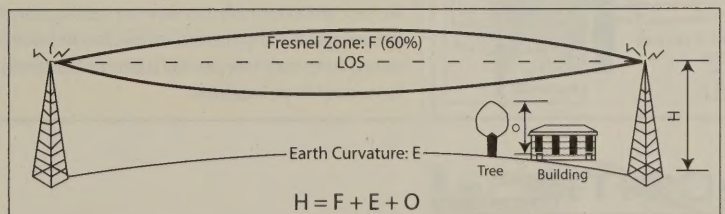
Before deploying any wireless network a site survey is recommended. The site survey typically entails installing an access point at each location where user groups are located and then monitoring the wireless signal strength by walking varying distances away from the access points using a laptop with site survey software. The result will show you where out may need more access points to provide sufficient coverage or where you may need to move an access point for optimal wireless connectivity.



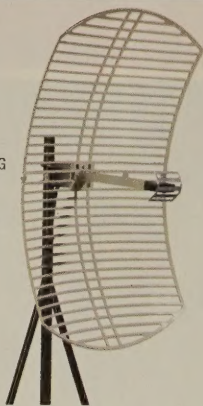
The proper height for an antenna depends generally on these basic factors...

- Distance between the sites: Earth Curvature, the higher the antenna needs to be.
- The Fresnel Zone: This is a electromechanical phenomenon, where light and radio signals get diffracted or bent from solid objects near their path. See Table showing the 60% of Fresnel Zone Values (Accepted clearing on path).
- Objects in the path: At a frequency of say 2.4 GHz, you need a clear line of sight (LOS). Tree tops will reflect or ground the signal. The theory is that the height of the tallest object in the path of a signal should be added to the Fresnel Zone and Earth Curvature clearance heights. In this case, one should check the height of the trees, hills or any object on the link path and add this to total Tower height.

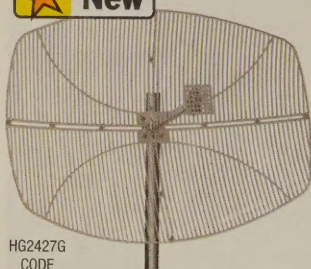
Wireless Link Distance (Miles)	Value Fresnel Zone F (60% at 2.4 GHz.) Approx. Value	Value E (Earth Curvature) Approx. Value	Antenna Height H Antenna Height No Obstruction
1	2	3	4
3	23	4	27
5	30	5	35
8	40	8	48
10	44	13	57
15	55	28	83
20	65	50	115
25	72	78	150



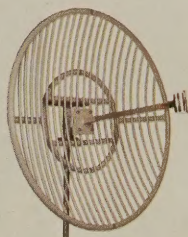
HG2424G
CODE
A



New



HG2427G
CODE
A

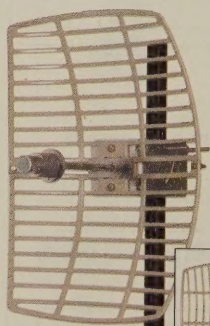


HG2430G
CODE
B

New



HG915G-NF
CODE
A



HG5421G (Vertical)
CODE
A



HG5421G (Horizontal)

Item # Code Description

2.4 GHz Grid Antennas

L-com's HyperGain® high performance reflector grid Wi-Fi antennas are available in gain ranges of 15 dBi to 30 dBi and are ideally suited for long-range highly directional applications. These applications include point to point systems, point to multipoint systems and wireless bridges in the 2.4 GHz ISM band as well as IEEE 802.11b/g/n wireless LAN systems. L-com's grid antennas can be installed for either vertical or horizontal polarization. Not all models are available in 5 packs.

- Wide range of frequencies
- Extensive selection of gain choices
- Point-to-point systems
- Point-to-multipoint systems
- Long-range directional applications
- RoHS compliant

SOLD INDIVIDUALLY (NO 5-PACKS)

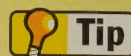
			1-9	10-24	25-99	100-249	250-499
HG2415G-NM	A	15dBi, 12in Pigtail with NM Connector	49.99	48.49	46.99	45.49	43.99
HG2427G	A	27dBi, Integral NF Connector	249.99	229.99	209.99	189.99	169.99
HG2430G	B	30dBi, 18in Pigtail with NF Connector	429.99	412.79	395.59	365.49	322.49
HG2430G-NM	B	30dBi, 18in Pigtail with NM Connector	479.99	451.19	422.39	393.59	364.79

SOLD INDIVIDUALLY

			1-4	5-9	10-24	25+
HG2415G-NF	A	15dBi, 12in Pigtail with NF Connector	34.99	34.64	34.29	33.94
HG2419G-NF	A	19dBi, 12in Pigtail with NF Connector	40.99	40.58	40.17	39.76
HG2424G-NF	A	24dBi, 12in Pigtail with NF Connector	54.99	54.44	53.89	53.34
HG2424G-NM	A	24dBi, 12in Pigtail with NM Connector	59.99	59.39	58.79	58.19

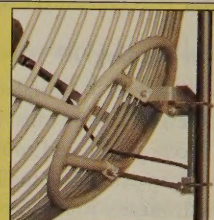
5-PACKS

			1-4	5-9	10-24	25+
HG2415G-NF-5PK	A	15dBi, 12in Pigtail with NF Connector, 5-Pack	159.99	158.39	156.79	155.19
HG2419G-NF-5PK	A	19dBi, 12in Pigtail with NF Connector, 5-Pack	197.99	192.05	186.11	180.17
HG2424G-NF-5PK	A	24dBi, 12in Pigtail with NF Connector, 5-Pack	249.99	237.49	224.99	212.49
HG2424G-NM-5PK	A	24dBi, 12in Pigtail with NM Connector, 5-Pack	259.99	246.99	233.99	220.99



Tip Tilt and Swivel Mounting

The HG2430G antenna is supplied with a 60 degree tilt and swivel mast mount kit. This allows installation at various degrees of incline for easy alignment. Antenna alignment is critical to the system's operation between sites. This versatile mount aids the installer in the field to achieve better alignment accuracy, optimizing system performance for the user.



900 MHz, 5.4 GHz and 5.8 GHz Grid Antennas

L-com's HyperLink Brand grid antennas feature a multi-piece reflector grid. With this type of design they are not only easy to assemble, but it significantly reduces shipping costs compared to similar antennas with one piece reflector grid. All of our reflector grids are UV powder coated for durability and aesthetics and the open-frame design minimizes wind loading. Not all models are available in 5 packs.

- Superior performance
- Die cast aluminum construction
- All weather operation
- UV stable light gray powder coat finish
- 19° beam-width
- RoHS compliant

RoHS 900 MHz Grid Antennas

SOLD INDIVIDUALLY (NO 5-PACKS)

			1-4	5-9	10-24	25+
HG918G-NF-2	B	18dBi, 18in Pigtail with NF Connector	327.99	314.87	301.75	288.63

SOLD INDIVIDUALLY

			1-4	5-9	10-24	25+
HG915G-NF	A	15dBi, 30in Pigtail with NF Connector	70.99	70.28	69.57	68.86

5-PACKS

			1-4	5-9	10-24	25+
HG915G-NF-5PK	A	15dBi, 30in Pigtail with NF Connector, 5-Pack	329.99	320.09	310.19	300.29

RoHS 5.4 GHz Grid Antennas

SOLD INDIVIDUALLY

			1-4	5-9	10-24	25+
HG5421G	A	21dBi, Integral NF Connector	49.99	49.49	48.99	48.49
HG5426G	A	26dBi, Integral NF Connector	53.99	53.45	52.91	52.37

5-PACKS

			1-4	5-9	10-24	25+
HG5421G-5PK	A	21dBi, Integral NF Connector, 5-Pack	239.99	232.79	225.59	218.39
HG5426G-5PK	A	26dBi, Integral NF Connector, 5-Pack	259.99	252.19	244.39	236.59

RoHS 5.8 GHz Grid Antennas

SOLD INDIVIDUALLY

			1-4	5-9	10-24	25+
HG5822G	A	22dBi, Integral NF Connector	49.99	49.49	48.99	48.49
HG5827G	A	27dBi, Integral NF Connector	53.99	53.45	52.91	52.37

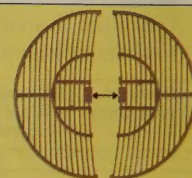
5-PACKS

			1-4	5-9	10-24	25+
HG5822G-5PK	A	22dBi, Integral NF Connector, 5-Pack	239.99	227.99	215.99	203.99
HG5827G-5PK	A	27dBi, Integral NF Connector, 5-Pack	259.99	252.19	244.39	236.59



Tip Antenna Construction

Two-piece grid antenna reflectors allow easy handling, shipping, and transportation to the site. These large grid antennas come in two symmetrical sections. They are bolted together on site easily, with the feed then installed. The antenna then is ready to be mounted in place on its mounting bracket (a number of brackets are available on the web site) to complete the installation.



Item #	Code	Description	1-9	10-24	25-99	100-249	250-499
--------	------	-------------	-----	-------	-------	---------	---------

HyperLink Brand Omni Directional Antennas - Versatile Mounting Options and All-Weather Design

L-com offers a wide range of Wi-Fi Omnidirectional antennas for multipoint applications where very wide coverage is desired. Designed to operate in the harshest of environments, L-com's Omni antennas far exceed other Omnidirectional antennas. Multiple applications are supported including IEEE 802.11 a/b/g/n wireless LAN systems, 900 MHz ISM, Wi-Fi and WiMAX.

Our Omnidirectional antennas are designed for superior performance, versatility and all-weather operation. Some of the features found in our omni antennas include vented end caps and drain holes in the base to help prevent moisture build-up inside the antenna, sealed collinear brass elements and heavy duty mounting systems. We even have a model designed for use in marine applications.

- Multipoint applications
- Public wireless hotspots
- All weather operation
- Wi-Fi and WiMAX
- Vented end caps
- RoHS compliant

RoHS 900 MHz Omnidirectional Antennas

HGV-906U	A	6dBi, Integral NF Connector	54.99	52.79	50.59	46.74	41.24
HG908U-PRO	A	8dBi, Integral NF Connector	124.99	112.49	99.99	87.49	74.99

RoHS 1.9 GHz Omnidirectional Antennas

HG1911U-PRO	A	11dBi, Integral NF Connector	99.99	96.99	93.99	90.99	87.99
HG1911U-PRO-5PK	A	11dBi, Integral NF Connector, 5-Pack	449.99	422.99	395.99	368.99	341.99

RoHS 2.4 GHz Omnidirectional Antennas

HGV-2404U	D	4dBi, Integral NF Connector	37.99	34.95	31.91	28.87	25.83
HGV-2406U	D	6dBi, Integral NF Connector	39.99	36.79	33.59	30.39	27.19
HGV-2409U	D	8.5dBi, Integral NF Connector	49.99	47.99	45.99	42.49	37.49
HG2408U-NF	B	8dBi, 12in Pigtail with NF Connector	62.99	59.84	56.69	53.54	CALL
HG2408U-NM	B	8dBi, 12in Pigtail with NM Connector	69.99	66.49	62.99	59.49	CALL
HG2408U-RBP	B	8dBi, 12in Pigtail with RP-BNC Connector	69.99	66.49	62.99	59.49	CALL
HG2408U-RSP	B	8dBi, 12in Pigtail with RP-SMA Connector	69.99	66.49	62.99	59.49	CALL
HG2408U-RTP	B	8dBi, 12in Pigtail with RP-TNC Connector	69.99	66.49	62.99	59.49	CALL
HG2408U-PRO	A	8dBi, Integral NF Connector	64.99	64.34	63.69	63.04	CALL
HG2408U-PRO-5PK	A	8dBi, Integral NF Connector, 5-Pack	299.99	287.99	275.99	254.99	224.99
HG2409U	D	8.5dBi, Integral NM Connector	49.99	45.99	41.99	37.99	33.99
HG2409UM-RSP	D	8.5dBi, Marine, 3ft Pigtail with RP-SMA Connector	109.99	98.99	87.99	76.99	65.99
HG2409UDT-PRO	A	9dBi, 7 Degree Down-Tilt, Integral NF Connector	71.99	68.39	64.79	61.19	CALL
HGV-2410U	C	10dBi, Integral NF Connector	59.99	57.59	55.19	50.99	44.99
HG2412U-NF	C	12dBi, 12in Pigtail with NF Connector	59.99	56.99	53.99	50.99	CALL
HG2412U-NM	C	12dBi, 12in Pigtail with NM Connector	69.99	66.49	62.99	59.49	CALL
HG2412U-RTP	C	12dBi, 12in Pigtail with RP-TNC Connector	69.99	66.49	62.99	59.49	CALL
HG2415U-PRO	A	15dBi, Integral NF Connector	114.99	113.84	112.69	111.54	CALL
HG2415U-PRO-5PK	A	15dBi, Integral NF Connector, 5-Pack	499.99	459.99	419.99	379.99	339.99

RoHS 2.6 GHz Omnidirectional Antennas

HG2609U	D	8.5dBi, Integral NM Connector	59.99	55.19	50.39	45.59	40.79
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RoHS 3.5 GHz Omnidirectional Antennas

HG3511U-PRO	B	11dBi, Integral NF Connector	74.99	72.74	70.49	68.24	65.99
HG3511U-PRO-5PK	B	11dBi, Integral NF Connector, 5-Pack	375.00	360.00	345.00	318.75	281.25

RoHS 5.3/5.8 GHz Omnidirectional Antennas

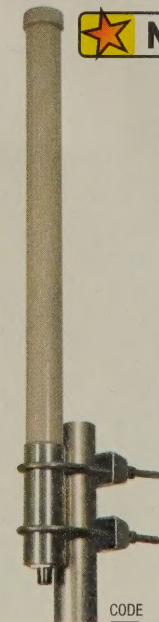
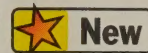
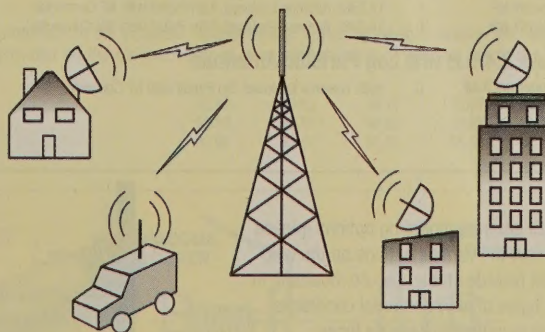
HG5310U	C	5.3 GHz, 10dBi, Integral NF Connector	69.99	67.19	64.39	59.49	52.49
HG5412U	C	5.4 GHz, 12dBi, Integral NF Connector	79.99	76.79	73.59	67.99	59.99
HG5808U	C	5.8 GHz, 8dBi, Integral NF Connector	79.99	71.99	63.99	55.99	47.99
HG5812U-PRO	A	5.8 GHz, 12dBi, Integral NF Connector	89.99	86.39	82.79	79.19	75.59
HG5812U-PRO-5PK	A	5.8 GHz, 12dBi, Integral NF Connector, 5-Pack	439.99	395.99	351.99	307.99	263.99

Point-to-Multipoint Application

L-com's HyperLink Brand Omni antennas provide wide, 360° coverage over large areas. These antennas provide connectivity to a varied mix of receiver/transmit antennas (or points) mounted in proximity or range of the base Omni antenna installation.

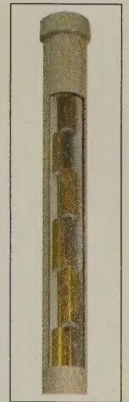
These multipoint antennas are typically focused or pointed to the base Omni antenna to complete the signal links. Mobile applications typically use Omni antennas to receive/send by establishing a link to the signal source antenna (the base Omni in this example).

In early 2009 L-com introduced a new 20° down tilt Omni antenna to improve coverage by moving the energy into a down looking pattern, improving overall connectivity for the system users.

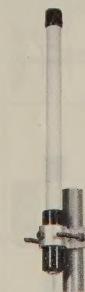


HG2408U-PRO

CODE
A



HG2415U-PRO
Cut-A-Way View
showing the center
fed Collinear Dipole
Array



HG2408U-300

CODE
B



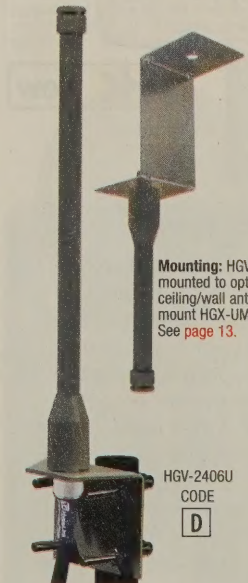
HG5808U

CODE
C



HGV2406U

CODE
D



Mounting: HGV-24104U
mounted to optional
ceiling/wall antenna
mount HGX-UMOUNT02.
See page 13.

HGV-2406U
CODE
D



Same day shipping

Orders placed before 4:00 EST
ship the same day.



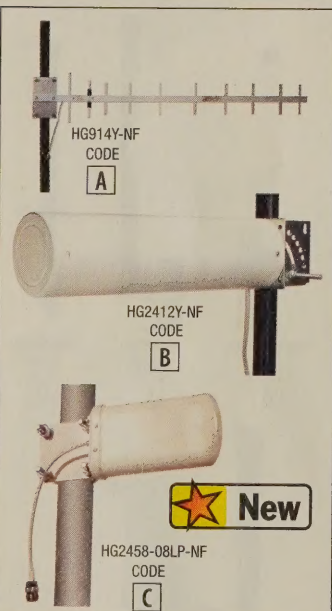
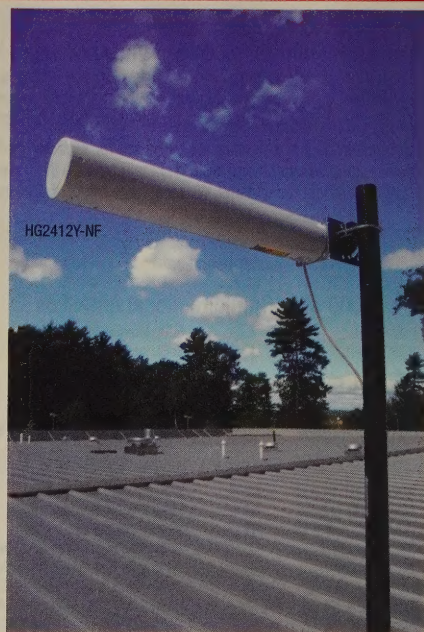


HyperLink Brand Yagi Antennas - Offer Precise, Directional Wireless Connectivity

Antennas are the most important element of a wireless link. If the wrong antenna is chosen, the link will not work. Antennas come in all shapes and sizes. They can look quite different from each other yet they can have similar performance and radiation patterns. In many cases the choice of Antenna (photo on right) type is based on personal preference or aesthetics in addition to performance and cost. Learn more at www.L-com.com.

HyperLink Antennas in use

Application: (photo on the left) Here the HG913Y-NF is being used in an industrial waste water treatment substation application. This HyperLink Brand Yagi antenna communicates back to a central location where treatment process data is collected and analyzed.

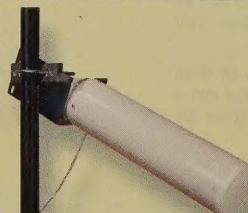


Did you know...

Named after its Japanese inventor, Yagi antennas are narrow band directional type antennas which consist of a boom supporting a series of metallic elements or rods. Because of their narrow beam widths they are ideally suited for directional and multipoint applications. L-com offers both traditional style Yagi antennas as well as our radome enclosed models.

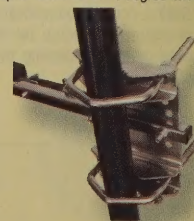
Item #	Code	Description	1-9	10-24	25-99	100-249	250-499
900 MHz, 1.9 GHz, 2.4 GHz and 5.8 GHz Yagi Antennas - Designed for Long Range Directional Operation							
These rugged outdoor rated directional Yagi antennas are ideally suited for IEEE 802.11b/g/n, PCS and 900 MHz ISM applications. HyperLink offers both radome enclosed models as well as non-radome enclosed Yagi antennas. A multitude of gain and connector options are available. For a complete listing of HyperLink Brand Yagi antennas visit www.L-com.com .							
• 2.4 GHz ISM band • 2.4 GHz IEEE 802.11b/g/n wireless LAN applications • All weather operation • 1.9 GHz for PCS			• Wi-Fi • Wireless video systems • RoHS compliant				
 900 MHz Yagi Antennas							
HG909Y-NF	A	9dBi, Stainless Steel, 18in Pigtail with NF Connector	31.99	30.71	29.43	27.19	23.99
HG909Y-NM	A	9dBi, Stainless Steel, 18in Pigtail with NM Connector	45.99	44.15	42.31	39.09	34.49
HG913Y-NF	A	13dBi, Stainless Steel, 18in Pigtail with NF Connector	45.99	44.15	42.31	39.09	34.49
HG913Y-NM	A	13dBi, Stainless Steel, 18in Pigtail with NM Connector	59.99	57.59	55.19	50.99	44.99
HG914Y-NF	A	14dBi, Aluminum, 12in Pigtail with NF Connector	119.99	115.19	110.39	101.99	89.99
HG914Y-NM	A	14dBi, Aluminum, 12in Pigtail with NM Connector	129.99	124.79	119.59	110.49	97.49
1.9 GHz Yagi Antenna							
HG1912SY-NF	A	12dBi, Stainless Steel, 7in Pigtail with NF Connector	44.99	41.39	37.79	34.19	30.59
 2.4 GHz Yagi Antennas							
HG2409Y-NF	B	9dBi, Radome Enclosed, 12in Pigtail with NF Connector	39.99	35.99	31.99	27.99	23.99
HG2409Y-NM	B	9dBi, Radome Enclosed, 12in Pigtail with NM Connector	49.99	44.99	39.99	34.99	29.99
HG2412SY-NF	A	12dBi, Stainless Steel, 7in Pigtail with NF Connector	44.99	41.39	37.79	34.19	30.59
HG2412Y-NF	B	12dBi, Radome Enclosed, 12in Pigtail with NF Connector	44.99	40.49	35.99	31.49	26.99
HG2412Y-NM	B	12dBi, Radome Enclosed, 12in Pigtail with NM Connector	54.99	49.49	43.99	38.49	32.99
HG2415Y-NF	B	14.5dBi, Radome Enclosed, 12in Pigtail with NF Connector	44.99	41.39	37.79	34.19	30.59
HG2415Y-NM	B	14.5dBi, Radome Enclosed, 12in Pigtail with NM Connector	44.99	41.39	37.79	34.19	30.59
 2.4/5.8 GHz Log Periodic Antennas							
HG2458-08LP-NF	C	8dBi, Radome Enclosed, 9in Pigtail with NF Connector	64.99	58.49	51.99	45.49	38.99

YAGI antenna mounting options (please review the various options on the web site) provide stable, secure mounting in all types of environmental conditions. This is critical to keeping these directional antennas "locked" on target to their respective system antenna points.



Mounting: The HG2415Y-NF antenna is supplied with a 60 degree tilt-and-swivel mast mount kit. An optional wall/ceiling mount kit is available.

Mounting: Tilt-and-Swivel Mount HG2412SY-NF and HG1912SY-NF. This mount provides 0-20 degree up or down tilt in 10 degree increments.



Item #	Code	Description	1-9	10-24	25-99	100-249	250-499
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Parabolic Dish Antennas - Superior Strength Design Ensures Durability

Our Wi-Fi parabolic dish antennas feature a high quality aluminum reflector dish for superior strength. The dish is coated in a light gray UV-inhibited polymer for durability and aesthetics. These directional dish antennas can be used in point to point as well as point to multipoint applications.

Built to withstand the elements, HyperLink Brand dish antennas offer high performance at competitive prices. When designing these Wi-Fi parabolic dish antennas, our design team factored in requirements such as location usage and environmental extremes. From versatile mounting options to features such as perforated reflectors, these antennas were built to withstand the test of time while maintaining optimal performance.

- Point-to-point systems
- Point-to-multipoint systems
- High quality aluminum construction
- All weather operation
- Many frequencies to choose from
- RoHS compliant

✓RoHS 2.4 GHz Dish Antennas

HG2414D	D	14dBi, 260mm Dia, Integral NF Connector	33.99	32.29	30.59	28.89	CALL
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✓RoHS 3.5 GHz Dish Antennas

HG3516D	A	16dBi, 246mm Dia, Integral NF Connector	49.99	45.99	41.99	37.99	CALL
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✓RoHS 5.3 GHz Dish Antennas

HG5328D	B	28dBi, 600mm Dia, Integral NF Connector	162.99	158.10	153.21	148.32	CALL
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✓RoHS 5.4 GHz Dish Antennas

HG5423D	B	23dBi, 400mm Dia, Integral NF Connector	129.99	124.79	119.59	110.49	97.49
HG5428D	B	28dBi, 600mm Dia, Integral NF Connector	162.99	154.84	146.69	138.54	CALL
HG5432D	B	32dBi, 900mm Dia, Integral NF Connector	239.99	232.79	225.59	218.39	CALL

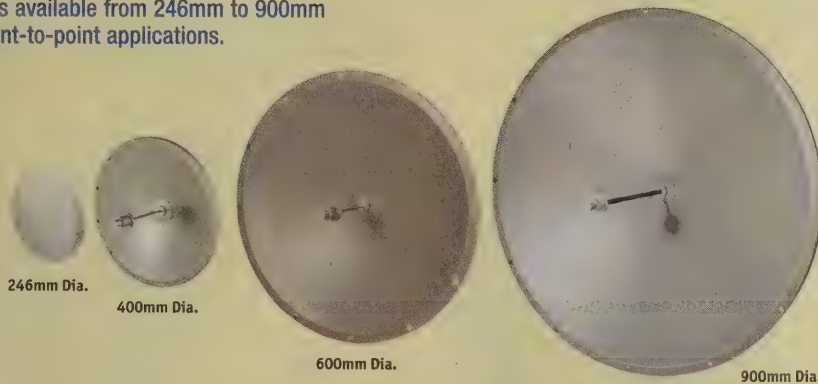
✓RoHS 5.8 GHz Dish Antennas

HG5817D	A	17dBi, 246mm Dia, Integral NF Connector	39.99	37.99	35.99	33.99	CALL
HG5824D	B	24dBi, 400mm Dia, Integral NF Connector	129.99	124.79	119.59	110.49	97.49
HG5829D	B	29dBi, 600mm Dia, Integral NF Connector	162.99	154.84	146.69	138.54	CALL
HG5833D	B	33dBi, 900mm Dia, Integral NF Connector	239.99	232.79	225.59	218.39	CALL

✓RoHS 5.1/5.8 GHz Broadband Dish Antennas

HG5158D	C	30dBi, Offset Feed, 830mm Dia, Integral NF Connector	149.99	145.49	140.99	136.49	CALL
HG5158DP-29D	B	28.5dBi, Dual Polarized, 600mm Dia, Integral NF Connector	259.99	246.99	233.99	220.99	CALL
HG5158DP-32D	B	32dBi, Dual Polarized, 900mm Dia, Integral NF Connector	329.99	313.49	296.99	280.49	CALL

Parabolics available from 246mm to 900mm for all point-to-point applications.



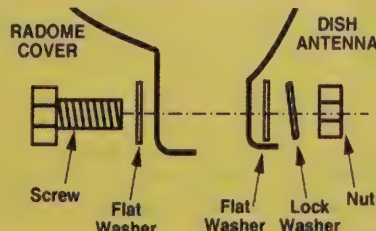
✓RoHS Radome Cover Kits

HyperGain® radome covers are an ideal way to provide additional protection to our parabolic dish antennas. These lightweight radome kits feature fiberglass construction and UV stable gray finish. Drain holes are provided on the radome cover to help prevent moisture build-up inside the dish antenna.

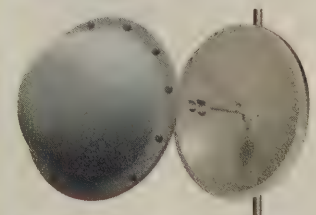
HGR-04	Radome Cover Kit for 400mm Dia Dish	42.99	39.55	36.11	32.67	29.23
HGR-06	Radome Cover Kit for 600mm Dia Dish	52.99	49.81	46.63	43.45	40.27
HGR-09	Radome Cover Kit for 900mm Dia Dish	62.99	60.47	57.95	53.54	47.24

Tip Easily attach a radome cover

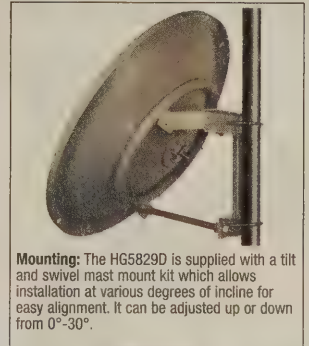
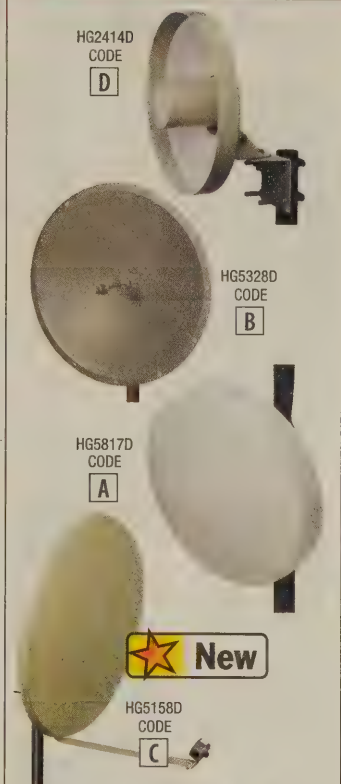
L-com's HyperLink Brand radome kits bolt directly to the dish antennas with the provided stainless steel hardware. Drilling mounting holes in the antenna is not required. The radome cover can be attached to existing antennas already mounted in the field or preassembled to the antenna before mounting.



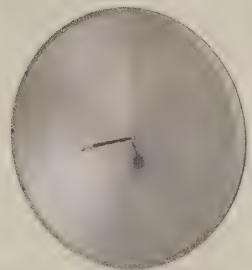
HG5833D - Perforated holes in the 900mm diameter dish antennas help reduce wind loading.



Fiberglass Cover Kits - Protects against the elements.



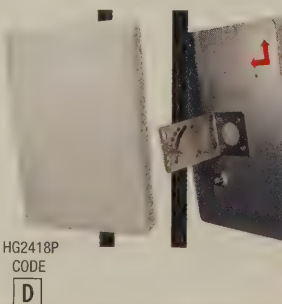
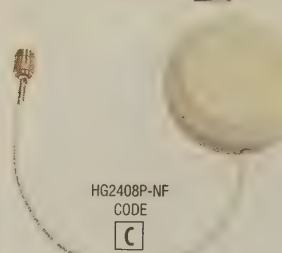
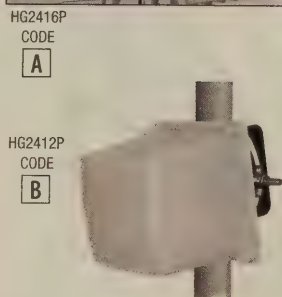
Mounting: The HG5829D is supplied with a tilt and swivel mast mount kit which allows installation at various degrees of incline for easy alignment. It can be adjusted up or down from 0°-30°.



For more useful information go to....
www.L-com.com/Resources

L-com® Global Connectivity

Note: Longer cable lengths are available.
See page 134.



Item # Code Description

1-9 10-24 25-99 100-249 250-499

HyperLink Brand Patch and Panel Antennas - Compact and Lightweight

These high performance directional patch and panel antennas are available for indoor and outdoor applications covering multiple popular frequencies. Our patch antennas are lightweight and feature aesthetic UV-stable, UL flame rated plastic radomes which can also be painted to match the room or building structure. Designed to be installed for horizontal or vertical polarization, they can be wall or ceiling mounted, as well as mast mounted using U-bolts.

Designed specifically as cost-effective solutions for today's demanding wireless applications, HyperGain® patch and panel antenna products offer a unique combination of superior all-weather performance, durability and aesthetics. Applications include IEEE 802.11b/g/n, 900 MHz cellular, RFID, 802.16, 802.20 and WiMAX.

- Point-to-point systems
- Point-to-multipoint systems
- Indoor and outdoor models available
- Public wireless hotspot
- Easy to install
- RoHS compliant

RoHS 900 MHz Patch Antennas

HG908P-NF	A	8dBi, 8in Square, 12in Pigtail with NF Connector	44.99	40.49	35.99	31.49	26.99
HG908P-SM	A	8dBi, 8in Square, 12in Pigtail with SM Connector	54.99	49.49	43.99	38.49	32.99

RoHS 1.9 GHz Patch Antennas

HG1908P-NF	A	8dBi, 4in Square, 12in Pigtail with NF Connector	39.99	35.99	31.99	27.99	23.99
HG1912P-NF	A	12dBi, 8in Square, 12in Pigtail with NF Connector	49.99	48.49	46.99	45.49	CALL

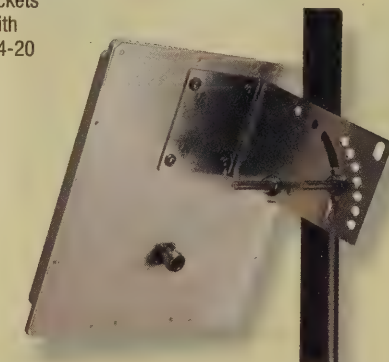
RoHS 2.4 GHz Patch Antennas

HG2408P-NF	C	8dBi, 4in Round, 12in Pigtail with NF Connector	24.99	22.49	19.99	17.49	14.99
HG2409PCL-NF	A	8dBi, 4in Square, LH Cir Polarized, 12in Pigtail with NF Connector	29.99	26.99	23.99	20.99	17.99
HG2409PCR-NF	A	8dBi, 4in Square, RH Cir Polarized, 12in Pigtail with NF Connector	29.99	26.99	23.99	20.99	17.99
HG2409P-NF	A	8dBi, 4in Square, 12in Pigtail with NF Connector	21.99	19.79	17.59	15.39	13.19
HG2412P	B	12dBi, 4in Square, Integral NF Connector	25.99	23.91	21.83	19.75	17.67
HG2414P	A	14dBi, 8in Square, Integral NF Connector	34.99	32.19	29.39	26.59	23.79
HG2414P-NF	A	14dBi, 8in Square, 12in Pigtail with NF Connector	32.99	30.35	27.71	25.07	22.43
HG2416P	A	15.5dBi, 8in Square, Integral NF Connector	44.99	41.39	37.79	34.19	30.59
HG2418P	D	18dBi, 12in Pigtail with NF Connector	49.99	47.49	44.99	42.49	CALL
HG2458-09P	A	9dBi, 8in Square, Multi-Band, Integral NF Connector	69.99	64.39	58.79	53.19	47.59

RoHS 2.6 GHz Patch Antenna

HG2614P-NF	A	14dBi, 8in Square, 12in Pigtail with NF Connector	44.99	40.49	35.99	31.49	26.99
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Mounting: L-com's patch antennas offer several unique mounting options. They can be mounted flat against a wall, or to a mast using a pair of 2 inch U-bolts. The antennas also accept most tilt-and-swivel security camera brackets equipped with standard 1/4-20 threads.



Flush Mount: The HG2408P-NF can be mounted flat against the wall or ceiling. Its unique design allows the cable to exit out of the side or from the back of the unit which is ideal for mounting in locations that require the cable to be hidden.



Did you know...

A complete listing of antennas and connector options can be found at www.L-com.com?



Tip

Custom Manufacturing

L-com is unique among most Wi-Fi antenna vendors by also being an antenna manufacturer. Being a manufacturer allows us to provide custom variations of all the antennas we manufacture in house or resell. In most cases we can ship out a large custom order in less than a week. Small custom orders are usually shipped on the same day they are received. L-com offers a broad range of antenna types covering 800 – 6000 MHz. Learn more at www.L-com.com.

Item #	Code	Description	1-9	10-24	25-99	100-249	250-499
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3.5 GHz, 4.9 GHz, 5.1 GHz, 5.3 GHz, 5.4 GHz and 5.8 GHz Patch Antennas

L-com's extensive line of patch antennas that cover frequencies from 3.5 to 5.8 GHz are ideal for applications such as WiMAX and public safety. Several of the patch antennas are broadband/multi-band antennas that eliminate the need to purchase different antennas for each frequency being used. This simplifies installations since the same antenna can be used for a wide array of wireless applications.

RoHS 3.5 GHz Patch Antennas

HG3509P-NF	A	8dBi, 4in Square, 12in Pigtail with NF Connector	39.99	35.99	31.99	27.99	23.99
HG3514P-NF	A	14dBi, 8in Square, 12in Pigtail with NF Connector	49.99	44.99	39.99	34.99	29.99

RoHS 4.9 GHz Patch Antennas

HG4953P	A	8dBi, 4in Square, Broadband, Integral SM Connector	49.99	44.99	39.99	34.99	29.99
HG4911P	A	11dBi, 4in Square, Integral SM Connector	49.99	44.99	39.99	34.99	29.99

RoHS 5.3 GHz Patch Antennas

HG5308P	A	8dBi, 4in Square, Integral SM Connector	39.99	35.99	31.99	27.99	23.99
HG5311P	A	11dBi, 4in Square, Integral SM Connector	49.99	44.99	39.99	34.99	29.99

RoHS 5.4 GHz Patch Antennas

HG5408P	A	8dBi, 4in Square, Integral SM Connector	39.99	38.39	36.79	33.99	29.99
HG5411P	A	11dBi, 4in Square, Integral SM Connector	49.99	47.99	45.99	42.49	37.49
HG5419P	A	19dBi, 7in Square, Integral FM Connector	49.99	47.49	44.99	42.49	CALL

RoHS 5.8 GHz Patch Antennas

HG5808P	A	8dBi, 4in Square, Integral SM Connector	39.99	35.99	31.99	27.99	23.99
HG5811P	A	11dBi, 4in Square, Integral SM Connector	49.99	44.99	39.99	34.99	29.99
HG5819P	A	19dBi, 7in Square, Integral FM Connector	49.99	47.49	44.99	42.49	CALL
HG5158P	A	8dBi, 4in Square, Broadband, Integral SF Connector	49.99	44.99	39.99	34.99	29.99
HG5158-23P	A	23dBi, 12in Square, Broadband, Integral NF Connector	79.99	77.59	75.19	72.79	70.39

2.4 GHz Mobile Mount Antennas - Built for Demanding Mobile Applications

Our extensive line of magnetic mount and mast mount mobile Omnidirectional antennas are perfect for demanding mobile applications including law enforcement, construction vehicles, and mobile metering. Several styles are offered with many frequency and gain choices supporting IEEE 802.11b/g/n.

- All weather construction
- IEEE 802.11b/g/n
- Bluetooth® and Wi-Fi
- Magnetic and mast mount options
- RoHS compliant

RoHS Magnetic Mobile Mounts

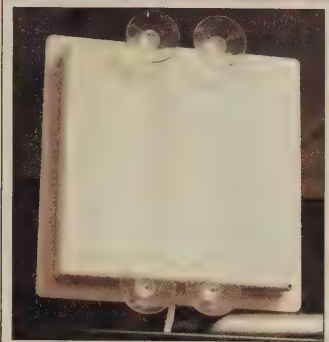
HMA6-RSP05	A	RP-SMA Jack to RP-SMA Plug, 5ft 100-Series	14.99	13.49	11.99	10.49	CALL
HMA6-RSP10	A	RP-SMA Jack to RP-SMA Plug, 10ft 100-Series	19.99	17.99	15.99	13.99	CALL
HMA6-RTP05	A	RP-SMA Jack to RP-TNC Plug, 5ft 100-Series	14.99	13.49	11.99	10.49	CALL
HMA6-RTP10	A	RP-SMA Jack to RP-TNC Plug, 10ft 100-Series	19.99	17.99	15.99	13.99	CALL
HMA1-NFA10	B	NMO to N-Female, 10ft 195-Series	19.95	17.95	15.96	13.96	CALL
HMA1-NMA10	B	NMO to N-Male, 10ft 195-Series	19.95	17.95	15.96	13.96	CALL
HMA1-RSPA10	B	NMO to RP-SMA Plug, 10ft 195-Series	19.95	17.95	15.96	13.96	CALL
HMA1-RTPA10	B	NMO to RP-TNC Plug, 10ft 195-Series	19.95	17.95	15.96	13.96	CALL
HMA3-NFA10	C	N-Female to N-Female, 10ft 195-Series	24.99	22.49	19.99	17.49	14.99
HMA3-NMA10	C	N-Female to N-Male, 10ft 195-Series	24.99	22.49	19.99	17.49	14.99
HMA3-RSPA10	C	N-Female to RP-SMA Plug, 10ft 195-Series	24.99	22.49	19.99	17.49	14.99
HMA3-RTPA10	C	N-Female to RP-TNC Plug, 10ft 195-Series	24.99	22.49	19.99	17.49	14.99

RoHS 2.4 GHz Antennas with Magnetic Mobile Mounts

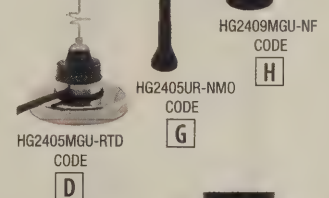
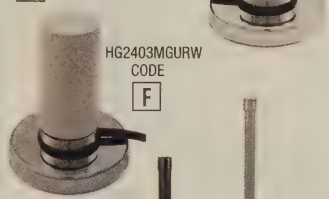
HG2403MGU-NM	E	3dBi, Dual Band, 10ft Cable with NM Connector	34.99	31.49	27.99	24.49	20.99
HG2403MGU-RSP	E	3dBi, Dual Band, 10ft Cable with RP-SMA Connector	39.99	35.99	31.99	27.99	23.99
HG2403MGU-RTP	E	3dBi, Dual Band, 10ft Cable with RP-TNC Connector	39.99	35.99	31.99	27.99	23.99
HG2403MGURW-NM	F	3dBi, White Radome, 10ft Cable with NM Connector	34.99	31.49	27.99	24.49	20.99
HG2403MGURW-RSP	F	3dBi, White Radome, 10ft Cable with RP-SMA Connector	39.99	35.99	31.99	27.99	23.99
HG2403MGURW-RTP	F	3dBi, White Radome, 10ft Cable with RP-TNC Connector	39.99	35.99	31.99	27.99	23.99
HG2403MGURB-NM	F	3dBi, Black Radome, 10ft Cable with NM Connector	34.99	31.49	27.99	24.49	20.99
HG2403MGURB-RSP	F	3dBi, Black Radome, 10ft Cable with RP-SMA Connector	39.99	35.99	31.99	27.99	23.99
HG2403MGURB-RTP	F	3dBi, Black Radome, 10ft Cable with RP-TNC Connector	39.99	35.99	31.99	27.99	23.99
HG2405MGU-NM	D	5dBi, 10ft Cable with NM Connector	39.99	38.39	36.79	33.99	29.99
HG2405MGU-RSP	D	5dBi, 10ft Cable with RP-SMA Connector	49.99	47.99	45.99	42.49	37.49
HG2405MGU-RTP	D	5dBi, 10ft Cable with RP-TNC Connector	49.99	47.99	45.99	42.49	37.49
HG2409MGU-NF	H	8.5dBi, 10ft Cable with NF Connector	64.99	61.09	57.19	53.29	49.39
HG2409MGU-NM	H	8.5dBi, 10ft Cable with NM Connector	64.99	61.09	57.19	53.29	49.39
HG2409MGU-RSP	H	8.5dBi, 10ft Cable with RP-SMA Connector	74.99	70.49	65.99	61.49	56.99

RoHS 2.4 GHz Mobile Mount Antennas

HG2403U-NMO	E	3dBi, Dual Band, Integral NMO Connector	29.99	26.99	23.99	20.99	17.99
HG2403UR-NMOW	F	3dBi, White Radome, Integral NMO Connector	29.99	26.99	23.99	20.99	17.99
HG2403UR-NMOB	F	3dBi, Black Radome, Integral NMO Connector	29.99	26.99	23.99	20.99	17.99
HG2405U-NMO	D	5dBi, Integral NMO Connector	19.99	17.99	15.99	13.99	11.99
HG2405UR-NMO	G	5dBi, Black Radome, Flex-Base, Integral NMO Connector	99.99	89.99	79.99	69.99	59.99
HG2409U	H	8.5dBi, Integral NM Connector	49.99	45.99	41.99	37.99	33.99



HG3514P-NF - Shown with HGX-PMT08 window mount kit. See page 13 for more mounting options.



Mounting: Magnetic mounting system is available for permanent installations.

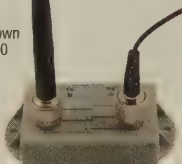


Informative e-mail newsletters

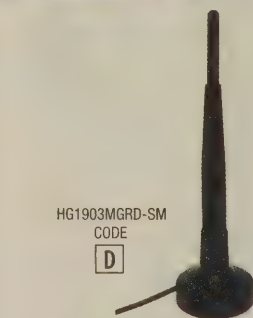
Our newsletters are packed with tips, tutorials, product info and downloads! L-com.com/NewsletterSignUp



HG2403RD-NM shown on HA2401MG-1000 2.4 GHz compact amplifier



HG2405RD-RTP Shown on a Linksys® WAP54G wireless access point



Item #	Code	Description	1-9	10-24	25-99	100-249	250-499
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900 MHz, 1.9 GHz, 2.4/5.8 GHz and 3.5 GHz Rubber Duck Antennas

These high performance Omnidirectional rubber duck antennas provide broad coverage and multiple gain options. HyperLink Brand flexible rubber duck antennas feature tilt-and-swivel connectors allowing them to be used vertically, at a right angle, or any angle in-between. Suitable as a replacement RF antenna for radios, wireless video transmitters and receivers, as well as digital spread spectrum radios.

Extensive List of Antennas for Many, Many Applications

- Tilt-and-swivel connectors
- Point-to-point systems
- Point-to-multipoint systems
- Multipoint and mobile applications
- Wi-Fi access points
- Multiple frequency choices

RoHS 900 MHz Rubber Duck Antennas

HG903RD-RSP	B	3dBi, Integral Tilt/Swivel RP-SMA Connector	10.99	9.89	8.79	7.69	6.59
HG903RD-SM	B	3dBi, Integral Tilt/Swivel SM Connector	10.99	9.89	8.79	7.69	6.59
HG905RD-RSP	B	5dBi, Integral Tilt/Swivel RP-SMA Connector	19.99	17.99	15.99	13.99	11.99
HG905RD-SM	B	5dBi, Integral Tilt/Swivel SM Connector	19.99	17.99	15.99	13.99	11.99

RoHS 1.9 GHz Rubber Duck Antenna

HG1903RD-RSP	B	3dBi, Integral Tilt/Swivel RP-SMA Connector	9.99	8.99	7.99	6.99	5.99
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RoHS 2.4 GHz Rubber Duck Antennas

HG2401RD-MMCX	C	1dBi, Integral Rt Angle Fixed Mount MMCX Connector	4.99	4.79	4.59	4.24	3.74
HG2401RD-MC	C	1dBi, Integral Rt Angle Fixed Mount MC Connector	2.99	2.96	2.93	2.90	2.87
HG2402RD-RSF	B	2.2dBi, Integral Tilt/Swivel RP-SMA Connector	5.99	5.39	4.79	4.19	3.59
HG2403RD-NM	B	3dBi, Integral Tilt/Swivel NM Connector	7.99	7.19	6.39	5.59	4.79
HG2403RD-RSF	B	3dBi, Integral Tilt/Swivel RP-SMA Connector	7.99	7.19	6.39	5.59	4.79
HG2403RD-RTF	B	3dBi, Integral Tilt/Swivel RP-TNC Connector	7.99	7.19	6.39	5.59	4.79
HG2405RD-NM	B	5dBi, Integral Tilt/Swivel NM Connector	14.99	13.49	11.99	10.49	8.99
HG2405RD-RSP	B	5dBi, Integral Tilt/Swivel RP-SMA Connector	9.99	8.99	7.99	6.99	5.99
HG2405RD-RTP	B	5dBi, Integral Tilt/Swivel RP-TNC Connector	9.99	8.99	7.99	6.99	5.99
HG2407RD-NM	B	7dBi, Integral Tilt/Swivel NM Connector	14.99	13.49	11.99	10.49	8.99
HG2407RD-RSP	B	7dBi, Integral Tilt/Swivel RP-SMA Connector	12.99	11.69	10.39	9.09	7.79
HG2407RD-RTP	B	7dBi, Integral Tilt/Swivel RP-TNC Connector	12.99	11.69	10.39	9.09	7.79
HG2407RD-SM	B	7dBi, Integral Tilt/Swivel SM Connector	14.99	13.49	11.99	10.49	8.99
HG2409RD-NM	B	9dBi, Integral Tilt/Swivel NM Connector	22.99	20.69	18.39	16.09	13.79
HG2409RD-RSP	B	9dBi, Integral Tilt/Swivel RP-SMA Connector	18.99	17.09	15.19	13.29	11.39
HG2409RD-RTP	B	9dBi, Integral Tilt/Swivel RP-TNC Connector	18.99	17.09	15.19	13.29	11.39
HG2409RD-SM	B	9dBi, Integral Tilt/Swivel SM Connector	18.99	17.09	15.19	13.29	11.39

RoHS 3.5 GHz Rubber Duck Antenna

HG3505RD-RSP	B	5dBi, Integral Tilt/Swivel RP-SMA Connector	14.99	13.49	11.99	10.49	8.99
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RoHS 2.4/5.8 GHz Multi-Band Rubber Duck Antennas

HG2458-5RD-RSP	A	3/5dBi, Integral Tilt/Swivel RP-SMA Connector	16.99	15.29	13.59	11.89	10.19
HG2458RD-RSP	B	3dBi, Integral Tilt/Swivel RP-SMA Connector	12.99	11.69	10.39	9.09	7.79
HG2458RD-SM	B	3dBi, Integral Tilt/Swivel SM Connector	12.99	11.69	10.39	9.09	7.79
HG2458RD-TM	B	3dBi, Integral Tilt/Swivel TM Connector	6.49	6.10	5.71	5.32	4.93

1.9 GHz, 2.4 GHz Rubber Duck Desktop Mobile Antennas

L-com's Omnidirectional rubber duck wireless LAN antennas provide broad coverage and 3-9dBi gain. These magnetic mount antennas feature a coaxial sleeve design with an Omnidirectional pattern. These antennas were designed for IEEE 802.11b/g/n wireless LANs and 1.9 GHz cellular PCS radio applications. Mobile applications for these antennas include service vehicles, public transportation, mining vehicles, as well as numerous other commercial and industrial applications where mobility is required. The magnetic base is suitable for affixing to vehicles or other metal surfaces as well as sitting on a tabletop or shelf.

RoHS 1.9 GHz Rubber Duck Antennas with Magnetic Mount

HG1903MGRD-SM	D	3dBi, 5ft Cable with SM Connector	19.99	19.39	18.79	18.19	CALL
HG1903MGRD-SNP	D	3dBi, 5ft Cable with SMA-Nano Connector	19.99	19.39	18.79	18.19	CALL

RoHS 2.4 GHz Rubber Duck Antennas with Magnetic Mount

HG2407MGRD-RSP	E	7dBi, 5ft Cable with RP-SMA Connector	19.99	18.99	17.99	16.99	CALL
HG2407MGRD-RTP	E	7dBi, 5ft Cable with RP-TNC Connector	19.99	18.99	17.99	16.99	CALL
HG2409MGRD-RSP	E	9dBi, 5ft Cable with RP-SMA Connector	25.99	24.43	22.87	21.31	19.75
HG2409MGRD-RTP	E	9dBi, 5ft Cable with RP-TNC Connector	25.99	24.43	22.87	21.31	19.75

RoHS 2.4/5.8 GHz Multi-Band Rubber Duck Antennas with Magnetic Mount

HG2458MGRD-RSP	F	3/5dBi, 5ft Cable with RP-SMA Connector	24.99	23.99	22.99	21.24	18.74
HG2458MGRD-RTP	F	3/5dBi, 5ft Cable with RP-TNC Connector	24.99	23.99	22.99	21.24	18.74

Item #	Code	Description	1-4	5-9	10-24	25+
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900 MHz, 2.4 GHz, 5.4 GHz and 5.8 GHz Sectorial Omnidirectional Array Antennas

L-com's sector antennas are designed for Cell Site installations and include a variety of gain, frequency and radiation patterns. These Wi-Fi antennas feature our unique heavy-duty mounting systems that allow installation from level to over 20 degrees down-tilt. In addition, 90, 120 and 180 degree arrays are available supporting a wide range of applications. These antennas feature stainless steel construction for all-weather operation.

RoHS 900 MHz Sectorial Array Antennas

HK913-120	A	13dBi, Multi-Feed, Incl. (3) 120° Antenna with Mounting Array	765.00	726.75	688.50	650.25
HK913-120NF	A	13dBi, Single-Feed, Incl. (3) 120° Antenna with Mounting Array, Splitter, 3 Cables	865.00	821.75	778.50	735.25

Item #	Code	Description	1-4	5-9	10-24	25+
RoHS 2.4 GHz Sectorial Array Antennas						
HK2414-090	A	14dBi, Multi-Feed, Incl. (4) 90° Antenna w/Mounting Array	550.00	495.00	440.00	385.00
HK2414-090NF	A	14dBi, Single-Feed, Incl. (4) 90° Antenna w/Mounting Array, Splitter, 4 Cables	650.00	585.00	520.00	455.00
HK2414-120	A	14dBi, Multi-Feed, Incl. (3) 120° Antenna w/Mounting Array	550.00	495.00	440.00	385.00
HK2414-120NF	A	14dBi, Single-Feed, Incl. (3) 120° Antenna w/Mounting Array, Splitter, 3 Cables	650.00	585.00	520.00	455.00
HK2414H-090	A	14dBi, Multi-Feed, Incl. (4) 90° H-Pol Antenna w/Mounting Array	750.00	675.00	600.00	525.00
HK2414H-090NF	A	14dBi, Single-Feed, Incl. (4) 90° H-Pol Antenna w/Mounting Array, Splitter, 4 Cables	850.00	765.00	680.00	595.00
HK2415-180	B	15dBi, Multi-Feed, Incl. (2) 180° Antenna w/Mounting Array	1100.00	990.00	880.00	770.00
HK2415-180NF	B	15dBi, Single-Feed, Incl. (2) 180° Antenna w/Mounting Array, Splitter, 2 Cables	1200.00	1080.00	960.00	840.00
HK2417-090	A	17dBi, Multi-Feed, Incl. (4) 90° Antenna w/Mounting Array	810.00	729.00	648.00	567.00
HK2417-090NF	A	17dBi, Single-Feed, Incl. (4) 90° Antenna w/Mounting Array, Splitter, 4 Cables	960.00	864.00	768.00	672.00
HK2417-120	A	17dBi, Multi-Feed, Incl. (3) 120° Antenna w/Mounting Array	650.00	585.00	520.00	455.00
HK2417-120NF	A	17dBi, Single-Feed, Incl. (3) 120° Antenna w/Mounting Array, Splitter, 3 Cables	750.00	675.00	600.00	525.00
HK2420-090	A	20dBi, Multi-Feed, Incl. (4) 90° Antenna w/Mounting Array	1750.00	1575.00	1400.00	1225.00
HK2420-090NF	A	20dBi, Single-Feed, Incl. (4) 90° Antenna w/Mounting Array, Splitter, 4 Cables	1900.00	1710.00	1520.00	1330.00
HK2420-120	A	20dBi, Multi-Feed, Incl. (3) 120° Antenna w/Mounting Array	1250.00	1125.00	1000.00	875.00
HK2420-120NF	A	20dBi, Single-Feed, Incl. (3) 120° Antenna w/Mounting Array, Splitter, 3 Cables	1350.00	1215.00	1080.00	945.00

RoHS 5.4 GHz Sectorial Array Antennas

HK5417-090	C	17dBi, Multi-Feed, Incl. (4) 90° Antenna with Mounting Array	699.99	629.99	559.99	489.99
HK5417-090NF	C	17dBi, Single-Feed, Incl. (4) 90° Antenna with Mounting Array, Splitter, 4 Cables	899.99	809.99	719.99	629.99

RoHS 5.8 GHz Sectorial Array Antennas

HK5817-090	C	17dBi, Multi-Feed, Incl. (4) 90° Antenna with Mounting Array	699.99	629.99	559.99	489.99
HK5817-090NF	C	17dBi, Single-Feed, Incl. (4) 90° Antenna with Mounting Array, Splitter, 4 Cables	899.99	809.99	719.99	629.99

Item #	Code	Description	1-9	10-24	25-99	100-249	250-499
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900 MHz, 2.4 GHz, 3.5 GHz, 5.4 GHz, 5.8 GHz and Multi-Band 2.4/5.8 GHz Sectorial Panel Antennas

L-com's sectorial panel antennas are available in multiple frequencies, gain and 90-180 degrees. They can be used standalone or in circular groups to maximize coverage and feature heavy-duty plastic radome for all-weather operation, with mounting systems that adjust to pinpoint direction. They can be used for wireless Internet Cell Sites and are an ideal choice for wireless Internet.

RoHS 900 MHz Sectorial Panel Antenna

HG913P-120	D	13dBi, 120°, Integral NF Connector	249.99	237.49	224.99	212.49	199.99
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RoHS 2.4 GHz Sectorial Panel Antennas

HG2414SP-090	D	14dBi, 90°, Integral NF Connector	149.99	137.99	125.99	113.99	101.99
HG2414SP-120	D	14dBi, 120°, Integral NF Connector	149.99	137.99	125.99	113.99	101.99
HG2414HSP-090	D	14dBi, 90°, Horizontal Polarized, Integral NF Connector	149.99	137.99	125.99	113.99	101.99
HG2414DP-090	D	14dBi, 90°, Dual Polarized, 2 Integral NF Connectors	179.99	165.59	151.19	136.79	122.39
HG2415P-180	E	15dBi, 180°, Integral NF Connector	479.99	431.99	383.99	335.99	287.99
HG2417P-090	D	17dBi, 90°, Integral NF Connector	164.99	158.39	151.79	140.24	123.74
HG2417P-120	D	17dBi, 120°, Integral NF Connector	164.99	158.39	151.79	140.24	123.74
HG2420P-090	D	20dBi, 90°, Integral NF Connector	399.95	359.96	319.96	279.96	239.97
HG2420P-120	D	20dBi, 120°, Integral NF Connector	399.95	359.96	319.96	279.96	239.97

RoHS 3.5 GHz Sectorial Panel Antenna

HG3515P-120	D	15dBi, 120°, Integral NF Connector	199.99	183.99	167.99	151.99	135.99
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RoHS 5.4 GHz Sectorial Panel Antenna

HG5417P-090	D	17dBi, 90°, Integral NF Connector	149.99	143.99	137.99	127.49	112.49
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RoHS 5.8 GHz Sectorial Panel Antenna

HG5817P-090	D	17dBi, 90°, Integral NF Connector	149.99	134.99	119.99	104.99	89.99
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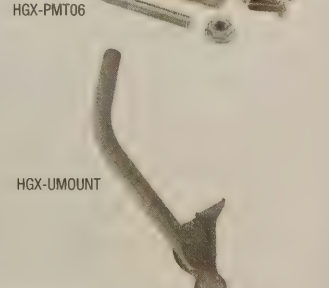
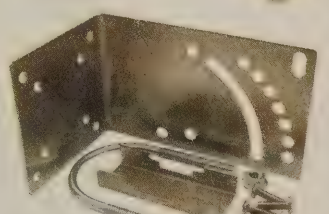
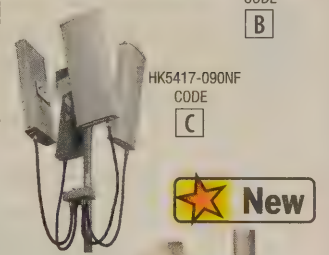
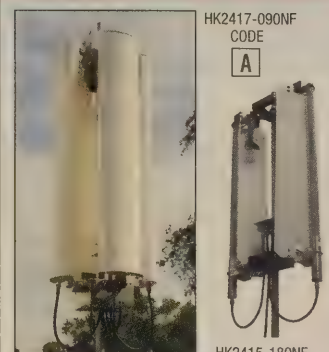
RoHS 2.4/5.8 GHz Sectorial Panel Antenna

HG2458-14P-090	D	14dBi, 90°, 2 Integral NF Connectors	189.99	174.79	159.59	144.39	129.19
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RoHS Mounting Brackets for NEMA Enclosures, Antennas, Amplifiers and Surge Protectors

L-com offers an extensive line of mounting bracket options for its antennas, amplifiers, NEMA enclosures and surge protectors. Options include wall mount, window mount, mast mount and more! Visit us online at www.L-com.com for complete bracket dimensions and specifications.

HGX-AMOUNT02	Mtg. bracket for HyperLink Amplifiers, PoE Products, Power Supplies	9.99	8.99	7.99	6.99	5.99
HGX-LPMOUNT01	ALQ2-NMNF Surge Protector Mounting Bracket	4.99	4.49	3.99	3.49	2.99
HGX-MMOUNT01	Ratchet Style Marine Antenna Mount	12.99	11.69	10.39	9.09	7.79
HGX-NMOUNT03	Universal Equipment Shelf, Mounts to Pre-drilled NEMA Plate	16.99	15.29	13.59	11.89	CALL
HGX-NMOUNT04	Universal Equipment Shelf, Mounts to Pre-drilled NEMA Plate	27.99	25.19	22.39	19.59	CALL
HGX-NPLATE01	Blank Aluminum Mounting Plate, Use in the NB141207 NEMA Enclosure	22.99	20.69	18.39	16.09	13.79
HGX-PMT02	Indoor Antenna Mounting Kit, Small Metal Tilt & Swivel	9.99	8.99	7.99	6.99	5.99
HGX-PMT03	Indoor Antenna Mounting Kit, Medium Plastic Tilt & Swivel	11.99	10.79	9.59	8.39	7.19
HGX-PMT04	Large Metal Tilt & Swivel Mounting Bracket for Wall or Mast Mounting	19.99	17.99	15.99	13.99	11.99
HGX-PMT06	60° Tilt & Swivel Mounting Kit for Mounting to 1-1/4" to 2" Dia. Masts	8.99	8.09	7.19	6.29	5.39
HGX-PMT07	Stationary Mounting Kit for Mounting to 1-1/4" to 2" Dia. Masts	5.99	5.39	4.79	4.19	3.59
HGX-PMT08	Suction Cup Window Mounting Kit for Select HyperLink Antennas	9.99	8.99	7.99	6.99	CALL
HGX-PMT11	Heavy Duty Stationary Mast Mounting Kit for Mtg. to 1-1/4" to 2" Dia. Masts	10.99	9.89	8.79	7.69	6.59
HGX-PMT13	NB141207 or NB181608 Series to 2" (50.8mm) to 4" (101.6mm) Dia. Poles	39.99	35.99	31.99	27.99	CALL
HGX-PMT14	Mast Mount Kit for Outdoor Filters/Splitters 1-1/4" to 2" Dia. Masts	12.99	11.69	10.39	9.09	CALL
HGX-PMT15	Indoor Antenna Mounting Kit- Compact Metal Tilt & Swivel	9.99	8.99	7.99	6.99	5.99
HGX-UMOUNT	Powder Coated Galvanized Steel "DSS-style" Arm-Outdoor Wall Mtg. 21 in.	14.99	14.39	13.79	12.74	11.24
HGX-UMOUNT-10PK	Powder Coated Galvanized Steel "DSS-style" Arm-Outdoor Wall Mtg. 10 Pack	119.99	115.19	110.39	101.99	89.99
HGX-UMOUNT01	Powder Coated Galvanized Steel "DSS-style" Arm-Outdoor Wall Mtg. 26.7 in.	15.99	15.35	14.71	13.59	11.99
HGX-UMOUNT01-PK	Powder Coated Galvanized Steel "DSS-style" Arm-Outdoor Wall Mtg. 10 Pack	129.99	124.79	119.59	110.49	97.49
HGX-UMOUNT02	Ceiling/Wall Mount for HyperLink 4.5"sq and 8.5"sq. Patch Antennas	14.99	13.49	11.99	10.49	8.99
HGX-UMOUNT03	Universal Antenna Fixed Corner Mtg. Bracket, Extension Kit, Hardware	37.99	34.19	30.39	26.59	22.79
HGX-UMOUNT04	Universal Corner Mounting Bracket	24.99	22.49	19.99	17.49	CALL



We answer your technical questions

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2009 Master Catalog 1.0 **13**



WLAN Amplifiers Tutorial

■ What are Amplifiers?

Wireless LAN Amplifiers are a type of electronic amplifier used to convert a low-power radio-frequency signal into a larger signal of significant power, typically used for driving the antenna of a transmitter.

■ How are Amplifiers used?

Wireless LAN Amplifiers are typically connected via low loss coaxial cable to a radio on one end and then to either a splitter or filter and then to an antenna. Sometimes they are connected directly to an antenna when a filter or splitter is not required.

■ Where are Amplifiers used?

Wireless LAN Amplifiers are used in wireless communications networks for public, private, military and government applications. Amplifiers can be used indoors and outdoors exposed to the elements or used in an equipment enclosure.



For more useful information go to....
www.L-com.com/Resources

L-com's HyperGain Series amplifiers support the following frequencies and applications

Frequency	Application
900 MHz	RFID, ISM, SCADA
2.4 GHz	802.11b,g,n WLANs
4.9 GHz	Homeland Security and Public Safety
5.8 GHz	802.11a WLANs

The power rating of an WLAN Amplifier is typically measured in kilowatts, milliwatts and watts. The higher the wattage the stronger the signal amplification.

Our HyperGain Series amplifiers support the following output power

100 mW	1 Watt	4 Watt	8 Watt	25 Watt
250 mW	2 Watt	5 Watt	10 Watt	
500 mW	3 Watt	6 Watt	20 Watt	

Automatic Power Control (APC)

The key requirements of bi-directional amplifiers for use with the new high data rate 802.11a/g/n radios is Automatic Power Control (APC), fast switching speed and good linearity. A 802.11a/g/n radio is very sensitive to signal distortion. Older amplifiers designed for use with 802.11b radios will not function properly with the newer radios. In 2002, we were the first company to offer an 802.11g bi-directional amplifier with APC. The use of a competitor's fixed gain amplifier with the new rate 802.11a/g/n radio is guaranteed to degrade radio or range performance. L-com's APC will hold transmit power constant regardless of data rate.

Amplifier products are available for export, military, licensed amateur radio (ham radio) and OEM component sales only and as part of complete FCC Certified Systems. Individual amplifier products are not offered for sale in the USA.

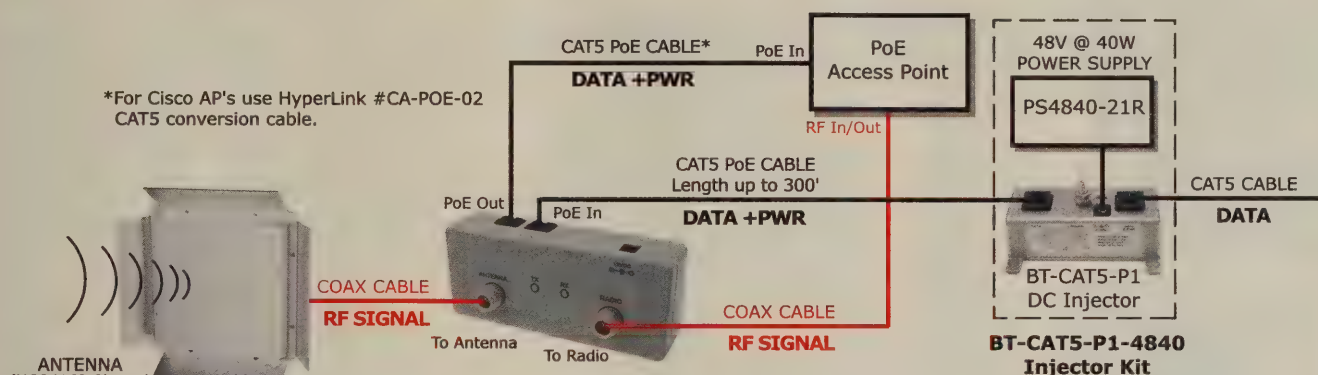
Please note that additional documentation may be required to purchase a HyperLink brand amplifier. In those cases an L-com sales associate will contact you to complete your order.

PoE Amplifiers

Power Over Ethernet (PoE) equipped amplifiers are becoming more popular today as many applications require remote location of wireless communications equipment where power is not readily available. Amplifiers with PoE interfaces derive their power via the attached Cat5 cable.

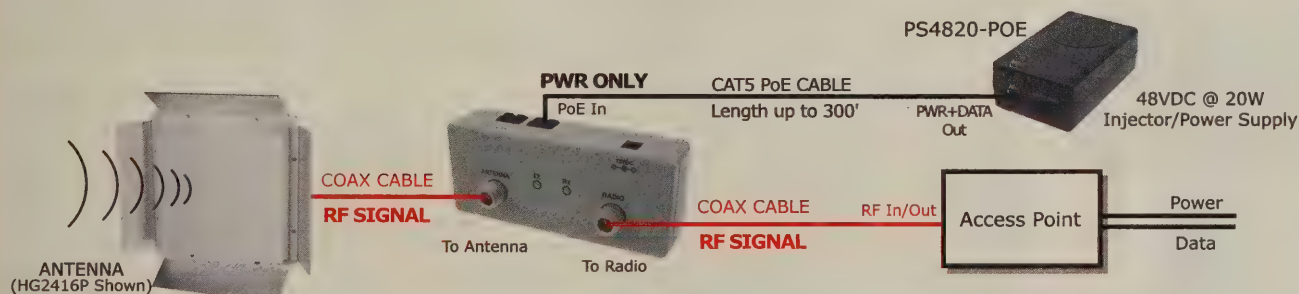
Here are some examples of methods to power PoE RF Amplifiers

Typical PoE Amplifier Applications



Powering the Amplifier and Access Point using a Single PoE Ethernet Cable

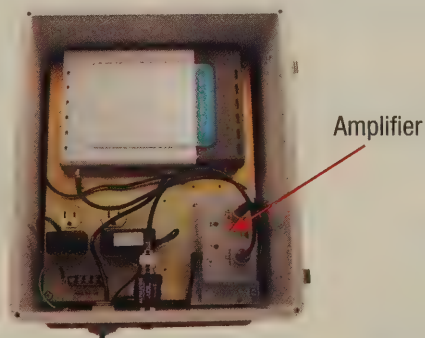
This application uses the amplifier's PoE pass-through feature.



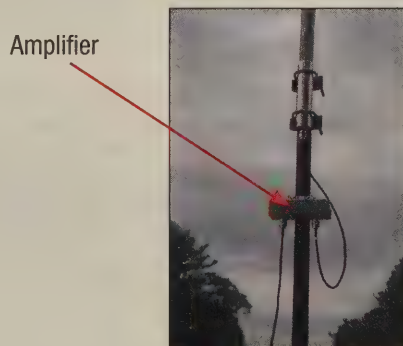
Powering the Amplifier using it's own Dedicated 48V PoE Line

WLAN Amplifier Mounting

For outdoor installations there are several standard methods for mounting RF Amplifiers



Typical enclosure mounting of an WLAN Amplifier



Typical Outdoor Mast Mounting of an WLAN Amplifier

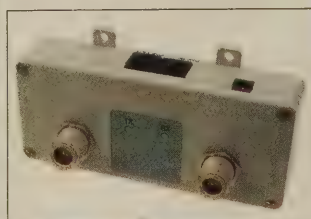


Informative e-mail newsletters

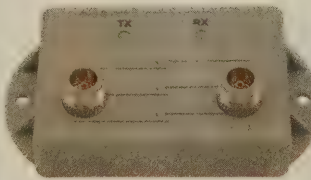
Our newsletters are packed with tips, tutorials, product info and downloads! L-com.com/NewsletterSignUp



HA2401GX1-1000



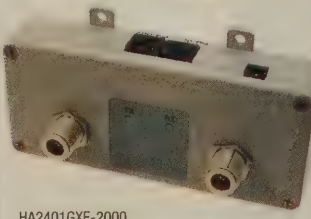
HA2401GX1-1000



HA2401GX1-1000



HA2401GX1-1000



HA2401GX1-1000

Item #	Description	1-4	5-9	10-24	25-99	100-249
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HyperAmp® Indoor and Outdoor Wi-Fi Amplifiers - Upgrade Your Operating Range and Performance

HyperAmp® is the leader in bi-directional Wi-Fi amplifiers for wireless LANs. Consisting of a low-noise receive amplifier and a transmit power amplifier, HyperAmp® offers significant improvement in operating range and performance. HyperAmp® is compatible with spread spectrum wireless gear including IEEE 802.11a/b/g devices.

- 100 mW to 25 Watt Amp models available
- 2.4 GHz, 4.9 GHz, 5.8 GHz and 900 MHz support
- Automatic gain control and fixed-gain models available
- Indoor and outdoor industrial grade versions
- Low profile "Design-In" Modules available
- Custom configurations available

Amplifier products are available for export, military, licensed amateur radio (ham radio) and OEM component sales only and as part of complete FCC Certified Systems. Individual amplifier products are not offered for sale in the USA.

Please note that additional documentation may be required to purchase a HyperLink brand amplifier. In those cases an L-com sales associate will contact you to complete your order.

RoHS HyperAmp® 2.4 GHz Indoor Amplifiers

HA2401GI-100	100 mW 802.11b/g, Includes Power Supply	129.99	123.49	116.99	110.49	103.99
HA2401GI-250	250 mW 802.11b/g, Includes Power Supply	139.99	132.99	125.99	118.99	111.99
HA2401GI-500	500 mW 802.11b/g, Includes Power Supply	149.99	142.49	134.99	127.49	119.99
HA2401GI-1000	1 W 802.11b, Includes Power Supply	149.99	142.49	134.99	127.49	119.99
HA2401GX1-1000	1 W 802.11b/g, Includes Power Supply	179.99	170.99	161.99	152.99	143.99
HA2401MG-250	250 mW 802.11b/g, Compact, Includes Power Supply	179.99	170.99	161.99	152.99	143.99
HA2401MG-500	500 mW 802.11b/g, Compact, Includes Power Supply	179.99	170.99	161.99	152.99	143.99
HA2401MG-1000	1 W 802.11b, Compact, Includes Power Supply	179.99	170.99	161.99	152.99	143.99
HA2401RTGI-250	250 mW 802.11b/g, RP-TNC Connectors, Includes Power Supply	179.99	170.99	161.99	152.99	143.99
HA2401RTGI-500	500 mW 802.11b/g, RP-TNC Connectors, Includes Power Supply	179.99	170.99	161.99	152.99	143.99
HA2401RTGI-1000	1 W 802.11b, RP-TNC Connectors, Includes Power Supply	179.99	170.99	161.99	152.99	143.99
HA2401RTGX1000	1 W 802.11b/g, RP-TNC Connectors, Includes Power Supply	179.99	170.99	161.99	152.99	143.99
HA240105GAI-NF	1/5 W Switchable 802.11b/g, Includes Power Supply	179.99	170.99	161.99	152.99	143.99
HA240510GAI-NF	5/10 W Switchable 802.11b & 802.11b/g, Includes Power Supply	179.99	170.99	161.99	152.99	143.99
HA2401025GAI-NF	10/25 W Switchable 802.11b & 802.11b/g, Includes Power Supply	229.99	218.49	206.99	195.49	183.99
HA2402GX1-NF	2 W 802.11b/g, Includes Power Supply	229.99	218.49	206.99	195.49	183.99
HA2401DX-XL3000	3 W 802.11b, Includes Power Supply	574.99	546.24	517.49	488.74	459.99
HA2403GTI-NF	3 W 802.11b/g, Includes Power Supply	624.99	593.74	562.49	531.24	499.99
HA2404GTI-NF	4 W 802.11b/g, Includes Power Supply	674.99	641.24	607.49	573.74	539.99
HA2405GTI-NF	5 W 802.11b/g, Includes Power Supply	674.99	641.24	607.49	573.74	539.99
HA2406GTI-NF	6 W 802.11b, Includes Power Supply	724.99	688.74	652.49	616.24	579.99
HA2408GTI-NF	8 W 802.11b, Includes Power Supply	1499.99	1424.99	1349.99	1274.99	1199.99
HA2410GTI-NF	10 W 802.11b/g, Includes Power Supply	1599.99	1519.99	1439.99	1359.99	1279.99
HA2420TI-NF	20 W 802.11b, Includes Power Supply	2099.99	1994.99	1889.99	1784.99	1679.99
HA2425TI-NF	25 W 802.11b, Includes Power Supply	2199.99	2089.99	1979.99	1869.99	1759.99

RoHS HyperAmp® 2.4 GHz Outdoor Amplifiers

HA2401G-100	100 mW 802.11b/g, Includes Power Supply/DC Injector	149.99	142.49	134.99	127.49	119.99
HA2401G-250	250 mW 802.11b/g, Includes Power Supply/DC Injector	159.99	151.99	143.99	135.99	127.99
HA2401G-500	500 mW 802.11b/g, Includes Power Supply/DC Injector	169.99	161.49	152.99	144.49	135.99
HA2401G-1000	1 W 802.11b, Includes Power Supply/DC Injector	169.99	161.49	152.99	144.49	135.99
HA2401GX-1000	1 W 802.11b/g, Includes Power Supply/DC Injector	199.99	189.99	179.99	169.99	159.99
HA2402GX-NF	2 W 802.11b/g, Includes Power Supply/DC Injector	249.99	237.49	224.99	212.49	199.99
HA2401RTG-250	250 mW 802.11b/g, RP-TNC Connectors, Includes Power Supply/DC Injector	249.99	237.49	224.99	212.49	199.99
HA2401RTG-500	500 mW 802.11b/g, RP-TNC Connectors, Includes Power Supply/DC Injector	249.99	237.49	224.99	212.49	199.99
HA2401RTG-1000	1 W 802.11b, RP-TNC Connectors, Includes Power Supply/DC Injector	249.99	237.49	224.99	212.49	199.99
HA2401RTGX-1000	1 W 802.11b/g, RP-TNC Connectors, Includes Power Supply/DC Injectors	249.99	237.49	224.99	212.49	199.99
HA2401-XL3000	3 W 802.11b, Includes Power Supply/DC Injector	249.99	237.49	224.99	212.49	199.99
HA2403GT-NF	3 W 802.11b/g, Includes Power Supply/DC Injector	649.99	617.49	584.99	552.49	519.99
HA2404GT-NF	4 W 802.11b/g, Includes Power Supply/DC Injector	699.99	664.99	629.99	594.99	559.99
HA2405GT-NF	5 W 802.11b/g, Includes Power Supply/DC Injector	749.99	712.49	674.99	637.49	599.99
HA2406GT-NF	6 W 802.11b, Includes Power Supply/DC Injector	749.99	712.49	674.99	637.49	599.99
HA2408GT-NF	8 W 802.11b, Includes Power Supply/DC Injector	799.99	759.99	719.99	679.99	639.99
HA2408GT-KIT	8 W 802.11b/g, Includes Power Supply/DC Injector/NEMA Enclosure	1899.99	1804.99	1709.99	1614.99	1519.99
HA2410GT-KIT	10 W 802.11b/g, Includes Power Supply/DC Injector/NEMA Enclosure	1999.99	1899.99	1799.99	1699.99	1599.99
HA2420T-KIT	20 W 802.11b, Includes Power Supply/DC Injector/NEMA Enclosure	2499.99	2374.99	2249.99	2124.99	1999.99
HA2425T-KIT	25 W 802.11b, Includes Power Supply/DC Injector/NEMA Enclosure	2599.99	2469.99	2339.99	2209.99	2079.99

RoHS HyperAmp® 2.4 GHz Indoor PoE Amplifiers

HyperAmp® PoE amplifier models feature a built-in Power-Over-Ethernet interface. This allows the amplifier to receive its power by the same CAT5 cable used to pass Data and Power to an additional PoE device. This eliminates the need for an additional DC Injector and coax cable, simplifying installation.

HA2401GE-250	250 mW 802.11b/g PoE Amplifier	164.99	156.74	148.49	140.24	131.99
HA2401GE-500	500 mW 802.11b/g PoE Amplifier	174.99	166.24	157.49	148.74	139.99
HA2401GX1-1000	1 W 802.11b/g PoE Amplifier	204.99	194.74	184.49	174.24	163.99
HA2401GX1-KIT02	1 W 802.11b/g, Includes Power Supply/PoE Injector	234.99	223.24	211.49	199.74	187.99
HA2401GX1-2000	2 W 802.11b/g PoE Amplifier	254.99	242.24	229.49	216.74	203.99
HA2401GX1-3000	3 W 802.11b PoE Amplifier	254.99	242.24	229.49	216.74	203.99

"I cannot say that I used L-com web site very often before, but during last couple of months I was searching for a few things and bought products by using your web-based checkout. Everything looks and works perfect for me. It is easy to find products and easy to understand the step-by-step payment process. I was really glad to use it! Thank you very much." — Timur Barakhoev, PGS Onshore

Item #	Description	1-4	5-9	10-24	25-99	100-249
 HyperAmp® 2.4G Hz Indoor OEM Amplifiers						
L-com's HyperAmp® OEM amplifiers feature low profile SMA Female connectors. This helps reduce the overall height of the amplifier, making it ideal for installations with limited space.						
HA2401SFGI-100	100 mW 802.11b/g, SMA Female Connectors, Includes Power Supply	129.99	123.49	116.99	110.49	103.99
HA2401SFGI-250	250 mW 802.11b/g, SMA Female Connectors, Includes Power Supply	139.99	132.99	125.99	118.99	111.99
HA2401SFGI-500	500 mW 802.11b/g, SMA Female Connectors, Includes Power Supply	149.99	142.49	134.99	127.49	119.99
HA2401SFGI-1000	1 W 802.11b, SMA Female Connectors, Includes Power Supply	149.99	142.49	134.99	127.49	119.99

HyperAmp® 2.4 GHz Indoor OEM PoE Amplifiers

In addition to the built-in Power-Over-Ethernet interface, these PoE OEM amplifiers feature low profile SMA Female connectors. This helps reduce the overall height of the amplifier, making it ideal for installations with limited space.

HA2401SFGI-100	100 mW 802.11b/g, SMA Female Connectors	154.99	147.24	139.49	131.74	123.99
HA2401SFGI-250	250 mW 802.11b/g, SMA Female Connectors	164.99	156.74	148.49	140.24	131.99
HA2401SFGI-500	500 mW 802.11b/g, SMA Female Connectors	174.99	166.24	157.49	148.74	139.99
HA2401SFGI-1000	1 W 802.11b, SMA Female Connectors	174.99	166.24	157.49	148.74	139.99

HyperAmp® 5.8 GHz Bi-Directional Amplifiers

As a leader in the field of amplifier design and development, L-com offers several versions of its 5.8 GHz amplifiers for both indoor and outdoor use. Consisting of a low-noise receive amplifier and a transmit power amplifier, HyperAmp® offers significant improvement in operating range and performance. Custom configurations are available, contact L-com today!

- Indoor and outdoor models available
- 5.8 GHz ISM, UNII Applications
- IEEE 802.11a
- Military, HAM and OEM 3 to 5 Watt versions
- Aluminum construction

HyperAmp® 5.8 GHz Outdoor Amplifiers

HA5801-500	500 mW 802.11a, Includes Power Supply/DC Injector	199.99	189.99	179.99	169.99	159.99
HA5803	3 W 802.11a, Includes Power Supply/DC Injector	1199.99	1139.99	1079.99	1019.99	959.99
HA5805	5 W 802.11a, Includes Power Supply/DC Injector	1299.99	1234.99	1169.99	1104.99	1039.99

HyperAmp® 5.8 GHz Indoor Amplifiers

HA5801I-500	500 mW 802.11a, Includes Power Supply	149.99	142.49	134.99	127.49	119.99
HA5803I	3 W 802.11a, Includes Power Supply	1149.99	1092.49	1034.99	977.49	919.99
HA5805I	5 W 802.11a, Includes Power Supply	1249.99	1187.49	1124.99	1062.49	999.99

900 MHz Bi-Directional Amplifiers

HyperAmp® HA900 series WLAN amplifiers are compatible with 900 MHz wireless LAN equipment including the new generation 2.75 Mbit CCK (Complementary Code Keying) spread spectrum radios. L-com's active power control circuit automatically adjusts the amplifier's gain to provide a constant output power regardless of cable length.

The HyperAmp® HA900 series improves range by delivering full transmit power and receive gain directly at the antenna where it is most effective. This gain compensates for cable losses and actually increases the receive sensitivity of most wireless LAN radios. The units can be configured to deliver the full transmit power with as little as 1 mW of input power, permitting cable runs of several hundred feet with no degradation in operating range.

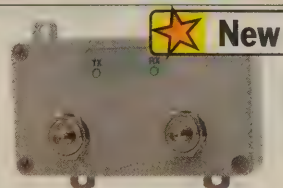
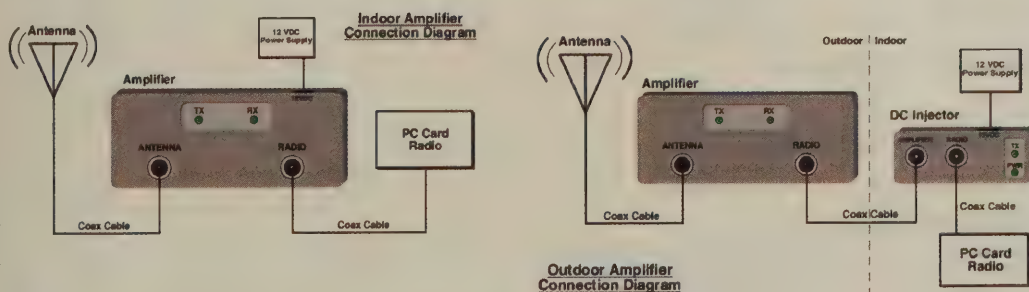
900 MHz Outdoor Amplifiers

HA900-APC500	500 mW Includes Power Supply/DC Injector	349.95	332.45	314.96	297.46	279.96
HA901-APC	1 W Includes Power Supply/DC Injector	379.99	360.99	341.99	322.99	303.99
HA903-APC	3 W Includes Power Supply/DC Injector	429.99	408.49	386.99	365.49	343.99
HA905-APC	5 W Includes Power Supply/DC Injector	499.99	474.99	449.99	424.99	399.99
HA905-DM	5 W OFDM Compatible, Includes Power Supply/DC Injector	699.99	664.99	629.99	594.99	559.99
HA910-APC	10 W Includes Power Supply/DC Injector	699.99	664.99	629.99	594.99	559.99
HA925SE-XXX	25 W Includes Power Supply/DC Injector	799.99	759.99	719.99	679.99	639.99

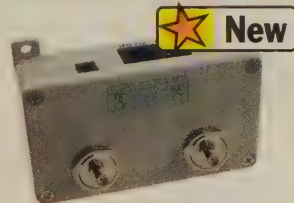
900 MHz Indoor Amplifiers

HA900I-APC500	500 mW Includes Power Supply	299.95	284.95	269.96	254.96	239.96
HA901I-APC	1 W Includes Power Supply	329.99	313.49	296.99	280.49	263.99
HA903I-APC	3 W Includes Power Supply	379.99	360.99	341.99	322.99	303.99
HA905I-APC	5 W Includes Power Supply	449.99	427.49	404.99	382.49	359.99
HA905I-DM	5 W OFDM Compatible, Includes Power Supply	649.99	617.49	584.99	552.49	519.99
HA910I-APC	10 W Includes Power Supply	649.99	617.49	584.99	552.49	519.99
HA925DX-XXX	25 W Includes Power Supply	749.99	712.49	674.99	637.49	599.99

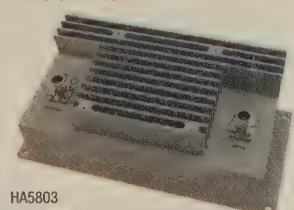
Typical Amplifier Connections



HA2401SFGI-1000



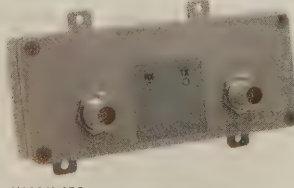
HA2401SFGI-1000



HA5803



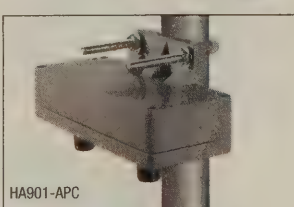
HA5801I-500



HA901-APC



HA925DX-XXX



HA901-APC



HA905I-DM

 For more useful information go to....
www.L-com.com/Resources

L-com Global Connectivity



RF Filters / Splitters Tutorial

What are RF Filters?

RF Filters reduce out of band interference and improve performance of co-located equipment. An RF Filter will only pass the frequency and channel you are transmitting or receiving and reduce the interference of signals outside your channel. Interference is usually caused by transmission sources near the channel you are transmitting on.

L-com's RF Filters are available in full band versions or fixed channel versions, and provide excellent channel rejection. All filters feature rugged aluminum construction and are available for indoor or outdoor applications.

What are RF Splitters/Combiners?

An RF Splitter/Combiner is a transmission component which divides or sums power between two or more ports. Typically they are used for connecting more than one antenna to a single radio and can also be used to connect multiple radios to a single antenna using the same frequency.

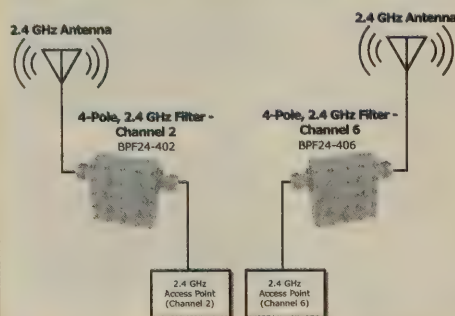


For more useful information go to...
www.L-com.com/Resources

What are RF Diplexers?

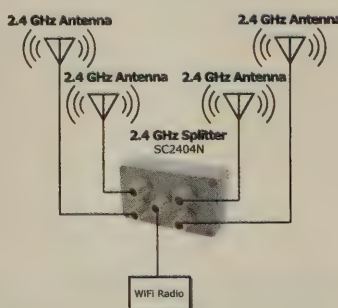
An RF Diplexer is a device that combines two signals onto a single transmission line. In general the two signals operate at different frequencies. L-com's Diplexers are designed to split 2.4 GHz and 5 GHz from a single radio feed to separate 2.4 GHz and 5 GHz antennas. Many dual-band 802.11a/b/g radios share a single antenna. These devices split these signals so that two separate 2.4 GHz and 5 GHz antennas can be used to improve performance. In addition, L-com Diplexers can also be used to combine 2.4 GHz or 5 GHz signals onto a single cable.

Typical RF Filter Application



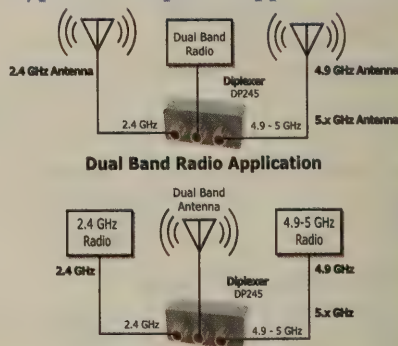
2.4 GHz Bandpass Channel Filter Application

Typical RF Splitter Application



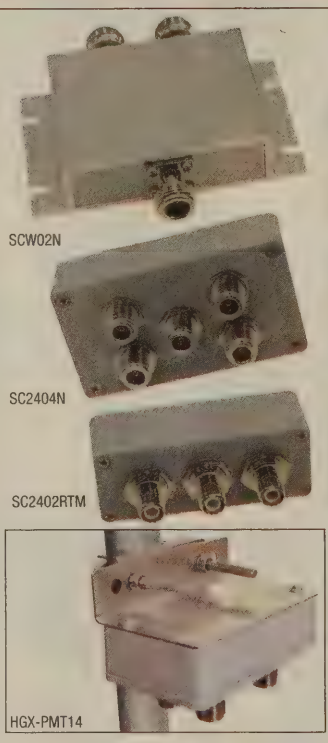
4-Way Signal Splitter Application

Typical RF Diplexer Applications



Dual Band Radio Application

Dual Band Antenna Application



Item #	Description	1-9	10-24	25-99	100-249	250-499
HyperGain® 800 MHz, 900 MHz, 2.4 GHz, 3.5 GHz and 5.8 GHz Signal Splitters/Signal Combiners						
L-com's HyperLink brand signal splitters/signal combiners are used for connecting more than one antenna to a single radio. They feature weatherproof construction and can be installed indoors or outdoors. These flexible splitters can be used with amplified systems since they will pass DC power to all ports. HyperGain® WLAN signal splitters/signal combiners are available in 2-way, 3-way and 4-way models and are available with N-Female and RP-TNC jack connectors.						
RoHS 800-2600 MHz Broadband Signal Splitters						
SCW02N	2-Way, NF Connectors	39.99	35.99	31.99	27.99	23.99
SCW03N	3-Way, NF Connectors	59.99	53.99	47.99	41.99	35.99
RoHS 900 MHz Signal Splitters						
SC902N	2-Way, NF Connectors	49.99	44.99	39.99	34.99	29.99
SC903N	3-Way, NF Connectors	59.99	53.99	47.99	41.99	35.99
RoHS 2.4 GHz Signal Splitters						
SC2402N	2-Way, NF Connectors	39.99	35.99	31.99	27.99	23.99
SC2402RTM	2-Way, RP-TNC Connectors	49.99	44.99	39.99	34.99	29.99
SC2403N	3-Way, NF Connectors	59.99	53.99	47.99	41.99	35.99
SC2403RTM	3-Way, RP-TNC Connectors	69.99	62.99	55.99	48.99	41.99
SC2404N	4-Way, NF Connectors	69.99	62.99	55.99	48.99	41.99
RoHS 3.5 GHz Signal Splitters						
SC3502N	2-Way, NF Connectors	39.99	37.99	35.99	33.99	CALL
SC3504N	4-Way, NF Connectors	69.99	66.49	62.99	59.49	CALL
RoHS 5.8 GHz Signal Splitters						
SC5802N	2-Way, NF Connectors	99.99	89.99	79.99	69.99	59.99
SC5804N	4-Way, NF Connectors	159.99	143.99	127.99	111.99	95.99
RoHS Accessories						
ANM-TERM1	N-Male 50-Ohm Terminator, 0-6 GHz	7.99	7.67	7.35	6.79	5.99
HGX-PMT14	Splitter Mast MNT Kit, 1-1/4in to 2in Diameter	12.99	11.69	10.39	9.09	CALL
HGX-AMOUNT02	Splitter Wall/Enclosure MNT Kit	9.99	8.99	7.99	6.99	5.99



Item #	Description	1-9	10-24	25-99	100-249	250-499
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2.4 GHz 802.11b/g Compatible Ultra High Q 4-Pole and 8-Pole Wi-Fi Bandpass Channel Filters

L-com's HyperLink brand indoor and outdoor 2.4 GHz ultra-high Q Wi-Fi channel filters are ideal for co-located equipment installations. Available in seven versions for channels 1, 3, 6, 9, 11, 13 and 14, they provide excellent adjacent channel rejection. By reducing interference from both inside and outside the band, improved performance of co-located equipment can be achieved. These bandpass filters are bi-directional, so either end can be connected to the antenna. These filters are designed to be installed indoors or in weather-resistant enclosures. Both 4-Pole and 8-Pole models are offered.

RoHS 2.4 GHz Filters

BPF24-401	4-Pole, Indoor, Channel 1	69.99	64.39	58.79	53.19	CALL
BPF24-403	4-Pole, Indoor, Channel 3	69.99	64.39	58.79	53.19	CALL
BPF24-406	4-Pole, Indoor, Channel 6	69.99	64.39	58.79	53.19	CALL
BPF24-409	4-Pole, Indoor, Channel 9	69.99	64.39	58.79	53.19	CALL
BPF24-411	4-Pole, Indoor, Channel 11	69.99	64.39	58.79	53.19	CALL
BPF24-801	8-Pole, Indoor, Channel 1	89.99	82.79	75.59	68.39	CALL
BPF24-801A	8-Pole, Outdoor, Channel 1	124.99	114.99	104.99	94.99	CALL
BPF24-803	8-Pole, Indoor, Channel 3	89.99	82.79	75.59	68.39	CALL
BPF24-806	8-Pole, Indoor, Channel 6	89.99	82.79	75.59	68.39	CALL
BPF24-806A	8-Pole, Outdoor, Channel 6	124.99	114.99	104.99	94.99	CALL
BPF24-809	8-Pole, Indoor, Channel 9	89.99	82.79	75.59	68.39	CALL
BPF24-809A	8-Pole, Outdoor, Channel 9	124.99	114.99	104.99	94.99	CALL
BPF24-811	8-Pole, Indoor, Channel 11	89.99	82.79	75.59	68.39	CALL
BPF24-811A	8-Pole, Outdoor, Channel 11	124.99	114.99	104.99	94.99	CALL
BPF24-813	8-Pole, Indoor, Channel 13	89.99	82.79	75.59	68.39	CALL
BPF24-813A	8-Pole, Outdoor, Channel 13	124.99	114.99	104.99	94.99	CALL
BPF24-814	8-Pole, Indoor, Channel 14	89.99	82.79	75.59	68.39	CALL
BPF2400	4-Pole, Indoor, Full Band	99.99	91.99	83.99	75.99	CALL
BPF2400A	4-Pole, Outdoor, Full Band	149.99	137.99	125.99	113.99	101.99

RoHS 900 MHz Full Band Ultra High Q 4-Pole Indoor and Outdoor Bandpass Filters

HyperLink brand 900 MHz 4-Pole ultra-high Q full band filters are designed for full band applications. By reducing interference outside the 915 MHz band such as from cellular and paging signals, improved performance in noisy environments can be achieved. The BPF900 series filters are ideal for use with 902-928 MHz ISM band applications as well as 900 MHz RFID applications. Both filters feature rugged aluminum construction. The BPF900 is designed for indoor use. For outdoor applications choose the BPF900A.

BPF900	4-Pole, Indoor, Full Band	99.99	91.99	83.99	75.99	67.99
BPF900A	4-Pole, Outdoor, Full Band	149.99	137.99	125.99	113.99	101.99

4.9 GHz and 5.8 GHz Full Band Ultra High Q 4-Pole Bandpass Filters

HyperLink brand 4.9 GHz and 5.8 GHz 4-Pole ultra high Q full band channel filters are ideal for co-located equipment installations. These filters are designed for full band applications. By reducing interference outside the respective bands (4900 MHz or 5800 MHz depending on model), improved performance on the co-located equipment can be achieved. These bandpass filters are wide enough to pass high data rate signals without degradation. Both filters feature rugged aluminum weatherproof construction and can be used indoors or outdoors.

RoHS 4.9 GHz Filters

BPF4900A	4-Pole, Outdoor/Indoor, Full Band	149.99	137.99	125.99	113.99	101.99
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RoHS 5.8 GHz Filters

BPF5800A	4-Pole, Outdoor/ Indoor, Full Band	149.99	137.99	125.99	113.99	101.99
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RoHS 2.4/5 GHz Diplexers

HyperLink brand 2.4/5 GHz diplexers are designed to split 2.4 GHz and 5 GHz from a single radio feed to separate 2.4 GHz and 5 GHz antennas. They can also be used to combine those frequencies into a single cable. HyperLink brand diplexers are available for indoor and outdoor applications and feature N-Female connectors.

• Covers entire 5 GHz range from 4.9 to 5.8 GHz

• Ideal for use with Multiband Access Points and Routers

DP245-NF	2.4/5.8 GHz, Outdoor, NF Connectors	49.99	44.99	39.99	34.99	CALL
DP2458-NF	2.4/5.8 GHz, Indoor, NF Connectors	139.99	125.99	111.99	97.99	CALL

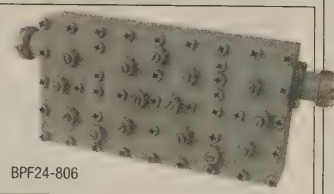
RoHS Accessories

HGX-PMT14	Filter Mast Mount Kit, 1-1/4in to 2in Diameter	12.99	11.69	10.39	9.09	CALL
HGX-AMOUNT02	Diplexer Wall/Enclosure MNT Kit	9.99	8.99	7.99	6.99	5.99

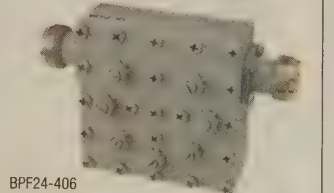


Tip Bandpass, Channel and Full Band Filters

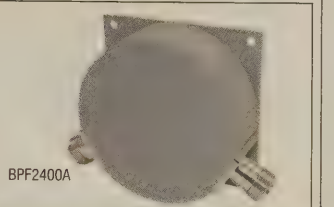
L-com offers two basic types of bandpass filters, channel and full band. A channel filter only allows signals within its pass band into the radio and rejects out of channel interferers. A full band filter allows signals within the full 802.11 pass band into the radio and rejects out of band interferers like the 1.9 GHz PCS band. L-com offers a full line of bandpass filters for 900 MHz, 2.4 GHz and 5 GHz radios that feature low insertion loss and superior rejection out of band signals. Learn more at www.L-com.com.



BPF24-806



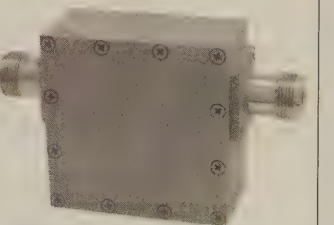
BPF24-406



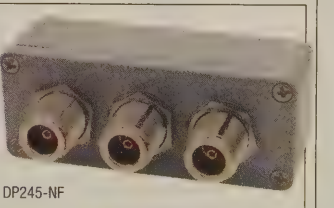
BPF2400A

Did you know...

RF Filters reduce interference and improve performance?



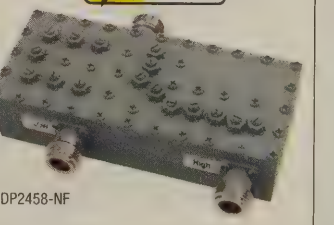
BPF5800A



DP245-NF



New



DP2458-NF



For more useful information go to....
www.L-com.com/Resources

L-com Global Connectivity



Lightning / Surge Protectors Tutorial

What are Lightning and Surge Protectors?

Lightning and surge protectors are devices whose purpose is to eliminate transients on a conductor which are induced by nearby lightning activity. They are used to prevent damage to valuable electronic equipment from these high-voltage surges and spikes.

How are Lightning and Surge Protectors used?

A lightning and surge protector is used inline between devices such as antennas and amplifiers and radios or between connections on Ethernet switches and routers. They are connected via copper cabling (Coaxial, UTP etc.).

Where are Lightning and Surge Protectors used?

Lightning and surge protectors are used in many different applications including outdoor wireless networks, indoor Ethernet network installations and in any instance where the potential for a power surge could damage or destroy communications equipment. They can also be used to protect video equipment which utilizes outdoor mounted PoE cameras.



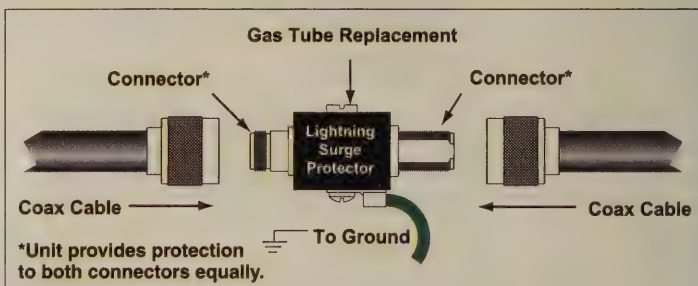
For more useful information go to....
www.L-com.com/Resources

Coaxial Lightning and Surge Protectors

L-com's HyperLink brand coaxial lightning and surge protectors are available in two types, Quarter Wave and Gas Discharge models.

Quarter Wave coaxial protectors are designed to pass the desired frequency while suppressing lightning surges, much like a signal filter. Lightning strike electrical surges which operate at low frequencies are diverted through the protector's short-circuit to the ground.

Gas Discharge coaxial protectors are a type of lightning arrestor which employs a replaceable gas discharge tube, which is a component containing a small amount of gas. The gas tube dumps extremely high amounts of surge energy directly to the ground of the protector. HyperLink brand coaxial lightning protectors are available for 0-3 GHz operation or 0-6 GHz operation.



Data line Lightning and Surge Protectors

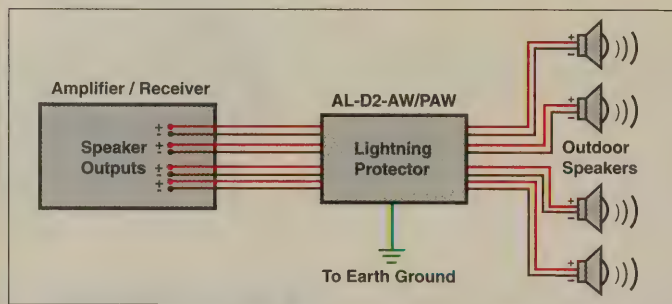
The use of surge protectors to protect sensitive equipment from lightning strikes and surges on Ethernet data lines has become more important than ever with the advent of faster standards like 100 and 1000 Base-T Ethernet. The faster data speeds have required equipment manufacturers to use fragile high speed components.

Designed for CAT5, CAT5e and CAT6 applications, L-com's HyperLink brand data line protectors are available in different power levels. From low power models for typical hub or client installations to high-power 3-stage protectors designed for maximum surge protection.

In addition to our data line protectors, we offer protectors for Telephone, DSL, T1, RS422/485, RS232 applications.

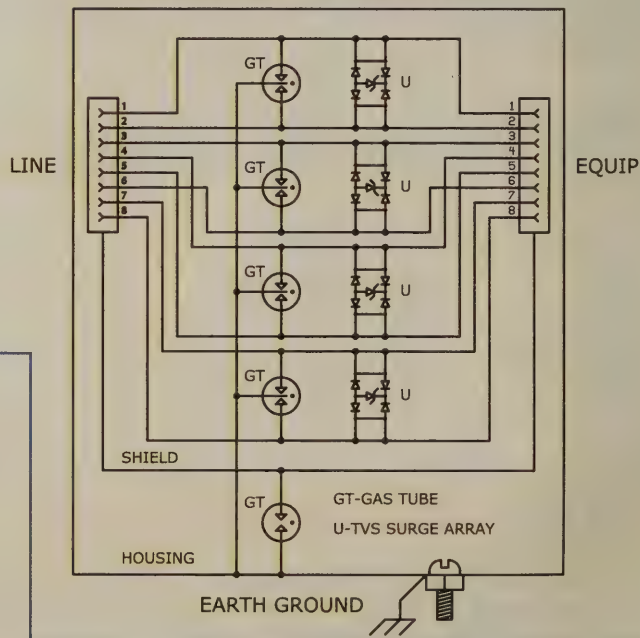
Outdoor Audio System Lightning and Surge Protectors

Lightning strikes on outdoor speakers can damage expensive home audio systems and public address systems. To reduce the risk of damage to these systems, we recommend one of our audio system protectors. These devices are placed between the audio amplifier and the outdoor speakers.



CAT6 High Power Lightning Protector Schematic

AL-CAT6HPJW, HGLN-CAT6-HP



Grounding Note:

Proper grounding of lightning and surge protectors is required to ensure proper operation. Connecting the ground lug on the protectors to an earth ground is the recommended method. Please refer to the National Electric Code (or your local codes) for additional information or contact a licensed electrician for assistance.

Item #	Description	1-9	10-24	25-99	100-249	250-499
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HyperLink's Brand Lightning and Surge Protectors - Protect Valuable Communications Equipment

L-com's data line lightning and surge protectors are designed to protect CAT5 10/100 Base-T Ethernet systems as well as CAT6 10/100/1000 Base-T systems (CAT6 models only). Indoor and outdoor versions are available as well as compact weather resistant models and high-power industrial grade three-stage protectors. Many of these models are also Power-over-Ethernet (PoE) compatible.

RoHS Category 5 Data Line Protectors

HGLN-CAT5-2	Indoor, 10/100 Base-T, Shielded, RJ45	37.99	34.19	30.39	26.59	22.79
HGLN-CAT5-HP	Indoor, 10/100 Base-T, 3-Stage, RJ45	59.99	53.99	47.99	41.99	35.99
AL-CAT5HPJW	Weather Resistant, 10/100 Base-T, 3-Stage, RJ45	49.99	47.99	45.99	42.49	37.49
AL-CAT5VW	Weather Resistant, 10/100 Base-T, RJ45	35.99	32.39	28.79	25.19	21.59
AL-CAT5JW	Weather Resistant, 10/100 Base-T, RJ45	29.99	28.79	27.59	25.49	22.49
AL-CAT5PW	Weather Resistant, 10/100 Base-T, Punch Down Block	29.99	28.79	27.59	25.49	22.49
AL-CAT5SW	Weather Resistant, 10/100 Base-T, Screw Terminal	29.99	28.79	27.59	25.49	22.49
AL-CAT5W	Weatherproof, 10/100 Base-T, RJ45 and Screw Terminal	44.99	43.19	41.39	38.24	33.74
AL-CAT5HPW	Weatherproof, 10/100 Base-T, 3-Stage, RJ45 and Terminal Block	69.99	67.19	64.39	59.49	52.49
AL-CAT5HPW-4	Weatherproof, 10/100 Base-T, 3-Stage, Multi-Port, RJ45 and Terminal Block	179.99	161.99	143.99	125.99	107.99

RoHS Category 5E Data Line Protectors

HGLN-CAT5EJW	Indoor, 10/100 Base-T, Shielded RJ45	44.99	42.29	39.59	36.89	CALL
AL-CAT5EJW	Weather Resistant, 10/100 Base-T, RJ45	39.99	38.39	36.79	33.99	29.99
AL-CAT5EPW	Weather Resistant, 10/100 Base-T, Punch Down Block	39.99	38.39	36.79	33.99	29.99
AL-CAT5EW	Weatherproof, 10/100 Base-T, Screw Terminal	39.99	38.39	36.79	33.99	29.99

RoHS Category 6 Data Line Protectors

HGLN-CAT6	Indoor, 10/100/1000 Base-T, Shielded, RJ45	39.99	35.99	31.99	27.99	23.99
AL-CAT6JW	Weather Resistant, 10/100/1000 Base-T, RJ45	31.99	30.71	29.43	27.19	23.99
AL-CAT6PW	Weather Resistant, 10/100/1000 Base-T, Punch Down Block	31.99	30.71	29.43	27.19	23.99
AL-CAT6W	Weatherproof, 10/100/1000 Base-T, Screw Terminal	49.99	47.99	45.99	43.99	41.99
HGLN-CAT6-HP	Indoor 10/100/1000 Base-T, Hi-Pwr, Shielded RJ45	61.99	55.79	49.59	43.39	CALL
AL-CAT6HPJW	Weather Resistant, 10/100/1000 Base-T, Hi-Pwr Shielded RJ45	51.99	49.91	47.83	44.19	38.99

RoHS Telephone/DSL/T1/ISDN/RS232/RS422/RS485 Protectors

HGLN-DC-12	Indoor, 12Vdc Power Line, Screw Terminal	37.99	36.85	35.71	34.57	CALL
HGLN-DSL	Indoor, Phone/DSL, 3-Stage, RJ11	49.99	45.99	41.99	37.99	33.99
AL-DSLJW	Weather Resistant, Phone/DSL, 3-Stage, RJ11	49.99	44.99	39.99	34.99	29.99
HGLN-D2-05	Indoor, RS422/485, RTDs, T1/E1/J1, 3-Stage, Screw Terminal	49.99	47.99	45.99	42.49	37.49
AL-D2W-05	Weather Resistant, RS422/485, RTDs, T1/E1/J1, 3-Stage, Screw Terminal	49.99	47.99	45.99	42.49	37.49
HGLN-D2-12	Indoor, RS232, Control Lines, Sensors, 3-Stage, Screw Terminal	49.99	47.99	45.99	42.49	37.49
AL-D2W-12	Weather Resistant, RS232, Control Lines, Sensors, 3-Stage, Screw Terminal	49.99	47.99	45.99	42.49	37.49
HGLN-D2-DT	Indoor, Phone/DSL, 3-Stage, Screw Terminal	49.99	46.99	43.99	40.99	37.99
AL-DSLW	Weather Resistant, Phone/DSL, 3-Stage, Screw Terminal	49.99	45.99	41.99	37.99	33.99
AL-D4W-DT	Weather Resistant, Phone/DSL, T1/E1/J1, Screw Terminal	39.99	38.39	36.79	33.99	29.99
AL-D4W-05	Weather Resistant, RS422/485, Screw Terminal	39.99	38.39	36.79	33.99	29.99
AL-D8W-12	Weather Resistant, RS232, Screw Terminal	39.99	38.39	36.79	33.99	29.99
AL-D2VW-9	Weather Resistant, 90V Dedicated Line w/o Ring Voltage, Screw Terminal	9.99	9.59	9.19	8.49	7.49
AL-D2VW-2	Weather Resistant, DSL, 230V Phone, ISDN, T1/E1/J1, Screw Terminal	9.99	9.59	9.19	8.49	7.49
AL-D0VW-9	90V Replacement Suppression Module for AL-D2VW	4.99	4.79	4.59	4.24	3.74
AL-D0VW-2	230V Replacement Suppression Module for AL-D2VW	4.99	4.79	4.59	4.24	3.74

RoHS Audio System Protectors

AL-D2-AW	Weatherproof, 4/8 Ohm Audio Systems, Screw Terminal	49.99	48.49	46.99	45.49	CALL
AL-D2-PAW	Weatherproof, 70.7/100V Public Address Systems, Screw Terminals	49.99	48.49	46.99	45.49	CALL

RoHS 0-3 GHz Coaxial Protectors

AL-NFNFB-9	N-Female to N-Female Bulkhead, 90V	18.99	17.09	15.19	13.29	11.39
AL-NFNFBHP-9	N-Female to N-Female Bulkhead, Indoor, High Power, 90V	24.99	23.99	22.99	21.24	18.74
AL-NMNF-9	N-Male to N-Female Bulkhead, 90V	18.99	17.09	15.19	13.29	11.39
AL-BMBFB-9	BNC Male to BNC Female Bulkhead, 90V	14.99	14.39	13.79	12.74	11.24
AL-FFFF-9	F-Female to F-Female, 90V	23.99	21.59	19.19	16.79	14.39
AL-RBPRBJB-9	RP-BNC Plug to RP-BNC Jack Bulkhead, 90V	14.99	14.39	13.79	12.74	11.24
AL-RTPRTJB-9	RP-TNC Plug to RP-TNC Jack Bulkhead, 90V	23.99	23.03	22.07	20.39	17.99
AL-TMTFB-9	TNC Male to TNC Female Bulkhead, 90V	23.99	23.03	22.07	20.39	17.99
AL-UUFB-6	UHF Female to UHF Female Bulkhead, 90V	14.99	14.39	13.79	12.74	11.24

RoHS 0-6 GHz Coaxial Protectors

AL6-NFNFB-9	N-Female to N-Female Bulkhead, 90V	29.99	27.59	25.19	22.79	20.39
AL6-NMNF-9	N-Male to N-Female Bulkhead, 90V	29.99	27.59	25.19	22.79	20.39

RoHS 2.4 GHz Quarter Wave Coaxial Protectors

ALQ2-NMNF	N-Male to N-Female Bulkhead, 1/4 Wave	34.99	33.59	32.19	29.74	26.24
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RoHS Replacement Gas Tubes

LPX090G	0-6 GHz, 90V, Replacement Gas Tube	9.99	8.99	7.99	6.99	5.99
LPX090	0-3 GHz, 90V, Replacement Gas Tube	4.99	4.49	3.99	3.49	2.99
LPX230	0-3 GHz, 230V, Replacement Gas Tube	4.99	4.49	3.99	3.49	2.99
LPX350	0-3 GHz, 350V, Replacement Gas Tube	4.99	4.49	3.99	3.49	2.99
LPX600	0-3 GHz, 600V, Replacement Gas Tube	4.99	4.49	3.99	3.49	2.99

RoHS Accessories

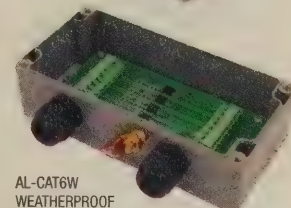
HGX-LPMOUNT01	ALQ2 Mounting Bracket	4.99	4.49	3.99	3.49	2.99
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HGLN-CAT5-HP
INDOOR



AL-CAT5HPJW
WEATHER RESISTANT



AL-CAT6W
WEATHERPROOF



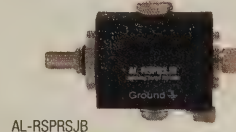
AL-CAT6JW
WEATHER RESISTANT



AL-NFNFB



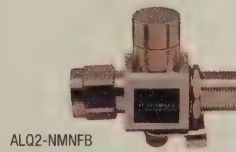
AL6-NMNF-9



AL-RSPRSJB



AL-NFNFBHP-9



ALQ2-NMNF



Same day shipping

Orders placed before 4:00 EST
ship the same day.



Premise Wiring Tutorial

What is Premise Wiring?

Premise Wiring is the cabling, connectors and accessories that are used to connect LAN (Local Area Network) and phone equipment inside a commercial building.

How is Premise Wiring used?

Premise Wiring is made up of vertical and horizontal cable runs from a central location throughout buildings to individual desktops.

Premise Wiring Terms

Backbone Wiring: The cabling used between telecommunication closets, entrance facilities, equipment rooms or buildings.

Category 5E/6: The standard unshielded twisted pair cabling used for LAN drops.

Conduit: Circular raceway that cable is run inside of. Conduit requirements are specified under appropriate electrical codes.

Cross Connect: The connection method used between permanent cabling (inside the walls) and equipment. A patch cord is often used as the connection means.

Demarcation Point: The point at which operational control changes. For example, where the phone company's responsibility ends and the building owner's begins.

Drop: Slang term used for each cabling span pulled from a telecommunications closet.

Equipment Room: The space dedicated to telecommunications equipment.

Horizontal Wiring: The span of cabling and connectors between the wiring closet and each drop. It is called horizontal because this type of wiring does not go up or down floors of a building.

Insulation Displacement Contact (IDC): A means of terminating wires without the need of stripping down to the bare wire.

Jumper: Single twisted pairs used for cross connecting between 66, 110, or Krone blocks.

Modular Jack: The female connector used at the end of each horizontal cabling drop. Usually

modular jacks utilize a 6 or 8 contact modular plug on the patching side and a 110, Krone, or other Insulation Displacement connection method (on the permanent horizontal wiring side).

Modular Plug: The male connector usually found at the end of a patch cord.

Patch Cord: A cable assembly with modular plugs on each end. Used for patching equipment to the patch panel in the equipment room and also used to connect to phones and computers at the drop.

Patch Panel: The common cross connect method used inside an equipment room. Typical Patch Panels utilize 110 or Krone connectors on the rear to connect to the horizontal cabling and modular jacks on the front to connect to equipment via patch cords.

Star Topology: The topology where wiring stems from one central point.

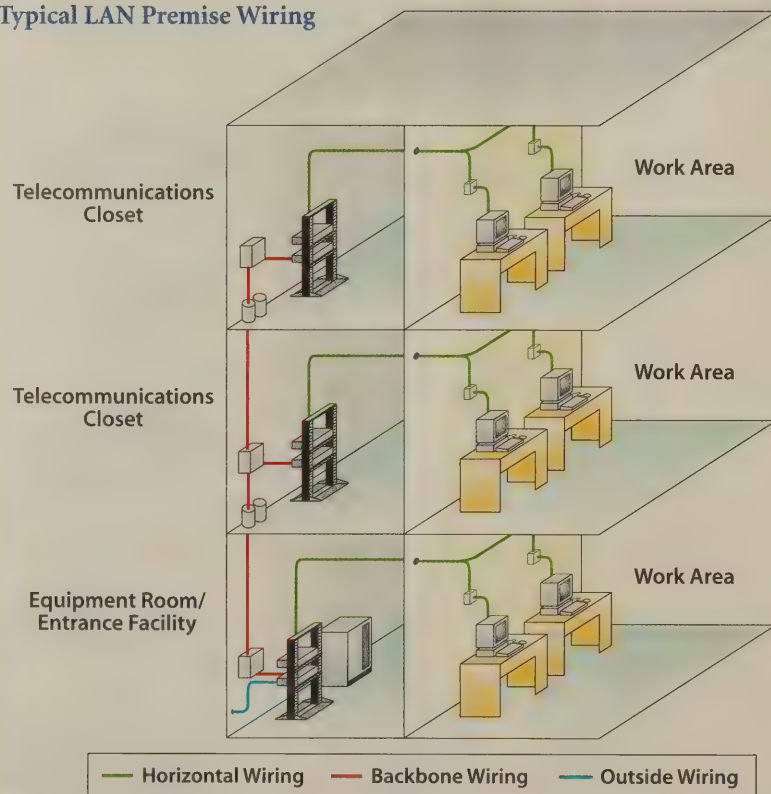
Telecommunications Closet: Enclosed space for containing telecommunications equipment, cable terminations and cross connects.

Work Area: Building space where occupants utilize telecommunications equipment.



For more useful information go to....
www.L-com.com/Resources

Typical LAN Premise Wiring



Wiring Notes:

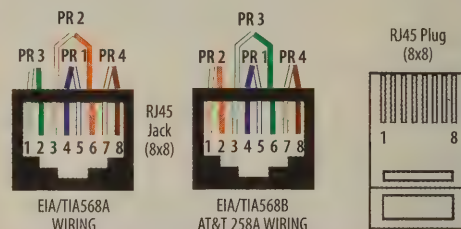
1. Category 5E/6 unshielded twisted pair is the norm. Use 4 pair solid conductor inside the walls, 4 pair stranded for patch cords. Plenum rated cabling may be necessary depending upon fire codes in your area.

2. Maximum distance for a horizontal run is 90m plus an additional 10m for patching.

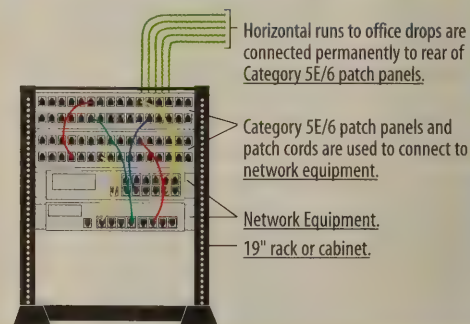
3. Fiber is the common choice for backbone wiring. It is also recommended for horizontal runs over 100m.

Common Wiring Standards for Data Communications

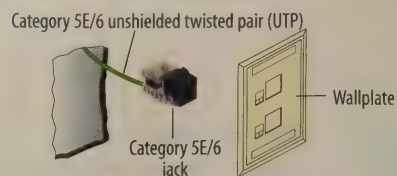
There are two common wiring standards for LAN wiring. When buying components such as jacks or patch panels, be sure to specify if you need EIA568A or EIA568B.



Typical Telecommunications Closet



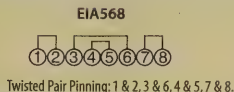
Typical Office Drop



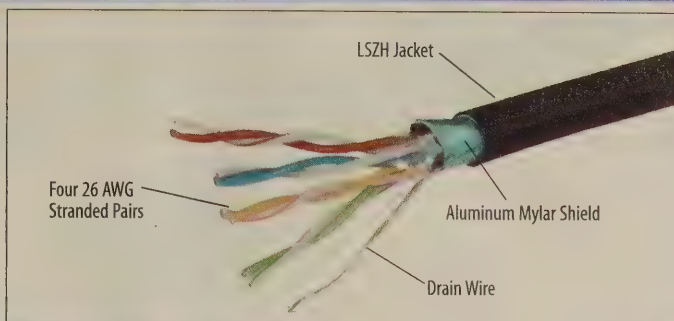
Category 5E RJ45 to RJ45 Shielded Low Smoke Zero Halogen Patch Cords

Designed for environments where PVC's combustive toxicity is restricted, L-com's shielded Low Smoke Zero Halogen (LSZH) Ethernet cables provide the ideal alternative. Featuring all-metal-body RJ45 connectors and aluminized polyester shielded cable with drain wire, these assemblies are designed to protect from EMI/RFI while maintaining high performance data transmission characteristics. Ensure the protection of your investment by utilizing these L-com exclusive LSZH cables. Ask about custom lengths and quantity pricing. Talk to us about your project today!

Category 5E Patch Cords



Category 5E Stranded 4 Pair Cable



Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
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RoHS Category 5E Shielded Low Smoke Zero Halogen Patch Cords

This series features 26 AWG stranded conductors and a 100% foil shield. The LSZH jacket is perfect for environments where PVC's combustive toxicity is restricted.

TRD855SZ-1	Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 1.0 ft	Black	16.95	16.61	15.93	14.92	12.71
TRD855SZ-2	Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 2.0 ft	Black	17.45	17.10	16.40	15.36	13.09
TRD855SZ-3	Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 3.0 ft	Black	18.45	18.08	17.34	16.24	13.84
TRD855SZ-5	Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 5.0 ft	Black	19.95	19.55	18.75	17.56	14.96
TRD855SZ-7	Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 7.0 ft	Black	21.45	21.02	20.16	18.88	16.09
TRD855SZ-10	Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 10.0 ft	Black	23.45	22.98	22.04	20.64	17.59
TRD855SZ-15	Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 15.0 ft	Black	27.45	26.90	25.80	24.16	20.59
TRD855SZ-25	Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 25.0 ft	Black	34.95	34.25	32.85	30.76	26.21
TRD855SZ-50	Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 50.0 ft	Black	53.45	52.38	50.24	47.04	40.09
TRD855SZ-75	Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 75.0 ft	Black	72.45	71.00	68.10	63.76	54.34
TRD855SZ-100	Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 100.0 ft	Black	90.95	89.13	85.49	80.04	68.21

Twisted Pair Pinning: 1 & 2, 3 & 6, 4 & 5, 7 & 8.

TRD855SZ



- SHIELDED CATEGORY 5E
- 4 pair 26 AWG stranded
 - LSZH jacket
 - Foil shielding

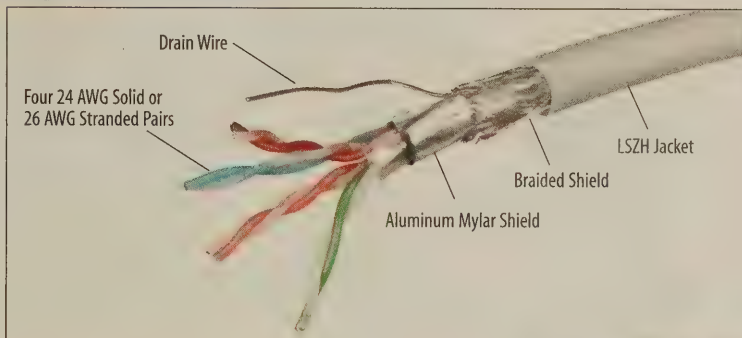
Category 5E Double Shielded Low Smoke Zero Halogen Patch Cords for High EMI/RFI Environments

When a single shield is not enough, L-com's exclusive double-shielded patch cords are ideal. EMI/RFI interference is drastically reduced due to L-com's superior cable shielding, a combination of a 100% foil plus a 60% braid shield. The Low Smoke Zero Halogen (LSZH) jacket allows this industrial patch cord to meet today's environmental and safety requirements.

Category 5E Patch Cords



Category 5E Stranded 4 Pair Cable



RoHS Category 5E Double Shielded LSZH 26 AWG Stranded Patch Cords

This series features 26 AWG stranded conductors that are flexible and easy to install even in tight spaces. L-com stocks lengths up to 300 ft and can ship most orders the same day.

TRD855DSZ-1	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 1.0 ft	Lt. Gray	13.00	11.70	10.40	9.10	7.80
TRD855DSZ-2	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 2.0 ft	Lt. Gray	14.50	13.05	11.60	10.15	8.70
TRD855DSZ-3	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 3.0 ft	Lt. Gray	16.00	14.40	12.80	11.20	9.60
TRD855DSZ-5	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 5.0 ft	Lt. Gray	19.00	17.10	15.20	13.30	11.40
TRD855DSZ-7	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 7.0 ft	Lt. Gray	22.00	19.80	17.60	15.40	13.20
TRD855DSZ-10	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 10.0 ft	Lt. Gray	26.50	23.85	21.20	18.55	15.90
TRD855DSZ-15	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 15.0 ft	Lt. Gray	34.00	30.60	27.20	23.80	20.40
TRD855DSZ-25	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 25.0 ft	Lt. Gray	49.00	44.10	39.20	34.30	29.40
TRD855DSZ-50	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 50.0 ft	Lt. Gray	86.50	77.85	69.20	60.55	51.90
TRD855DSZ-75	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 75.0 ft	Lt. Gray	124.00	111.60	99.20	86.80	74.40
TRD855DSZ-100	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 100.0 ft	Lt. Gray	161.50	145.35	129.20	113.05	96.90

TRD855DSZ



- DOUBLE SHIELDED CATEGORY 5E
- Double shielded foil+braid reduces EMI/RFI interference
 - Low smoke zero halogen jacket for environmental and safety concerns
 - 26 AWG conductors for flexibility
 - Stock lengths are available up to 300 ft.

RoHS Category 5E Double Shielded LSZH 24 AWG Solid Patch Cords

This series features 24 AWG solid conductors allowing easy termination to IDC connectors. L-com stocks lengths up to 300 ft and can ship most orders the same day.

TRD855SIG-1	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 1.0 ft	Lt. Gray	13.60	12.24	10.88	9.52	8.16
TRD855SIG-2	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 2.0 ft	Lt. Gray	15.20	13.68	12.16	10.64	9.12
TRD855SIG-3	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 3.0 ft	Lt. Gray	16.80	15.12	13.44	11.76	10.08
TRD855SIG-5	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 5.0 ft	Lt. Gray	20.00	18.00	16.00	14.00	12.00
TRD855SIG-7	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 7.0 ft	Lt. Gray	23.20	20.88	18.56	16.24	13.92
TRD855SIG-10	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 10.0 ft	Lt. Gray	28.00	25.20	22.40	19.60	16.80
TRD855SIG-15	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 15.0 ft	Lt. Gray	36.00	32.40	28.80	25.20	21.60
TRD855SIG-25	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 25.0 ft	Lt. Gray	52.00	46.80	41.60	36.40	31.20
TRD855SIG-50	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 50.0 ft	Lt. Gray	92.00	82.80	73.60	64.40	55.20
TRD855SIG-75	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 75.0 ft	Lt. Gray	132.00	118.80	105.60	92.40	79.20
TRD855SIG-100	Double Shielded Cat. 5E LSZH Patch Cord, RJ45 / RJ45, 100.0 ft	Lt. Gray	172.00	154.80	137.60	120.40	103.20

L-com Exclusive



TRD855SIG



- DOUBLE SHIELDED CATEGORY 5E
- 4 pair 24 AWG solid
 - LSZH jacket
 - Foil + braid shielding



Technical resources

Free tips, tutorials and downloads help you learn all about connectivity. Visit L-com.com/Resources

Premium Category 6 RJ45 to RJ45 Shielded Patch Cords

Over the past couple of years, Category 6 performance has become the primary choice when installing new network cabling. With high bandwidth applications on the rise and network systems venturing into new areas such as factory environments, the need for shielded Cat 6 cable has also increased. L-com has stepped up to this new demand and created a line of high performance Cat 6 patch cords that feature a 100% foil shield and the option of either a PVC or Low Smoke Zero Halogen (LSZH) jacket.

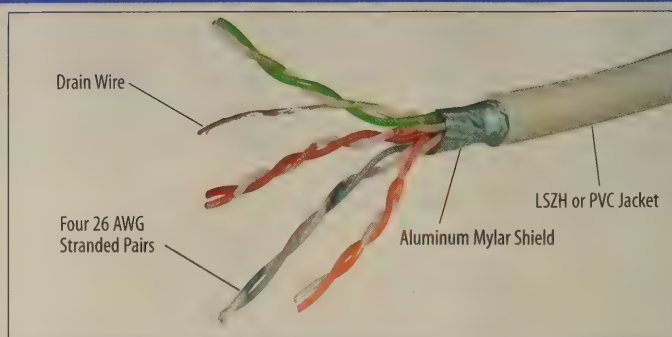
Category 6 Patch Cords

EIA568



Twisted Pair Pinning: 1 & 2, 3 & 6, 4 & 5, 7 & 8.

Category 6 Stranded
4 Pair Cable



TRD695SCR

SHIELDED CATEGORY 6

- 4 pair 26 AWG stranded
- PVC jacket
- Foil shielding

TRD695SZ

SHIELDED CATEGORY 6

- 4 pair 26 AWG stranded
- LSZH jacket
- Foil shielding

Item #

Description

Color

1-9

10-24

25-99

100-249

250-499

RoHS Category 6 Shielded Patch Cords with PVC Jacket

This series features a RoHS compliant PVC jacket and a 100% foil shield. The four pair 26 AWG stranded Cat 6 cable is terminated with L-com's unique shielded Cat 6 plugs, with a fully crimped shield termination that doubles as a strain relief.

Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
TRD695SCR-1	Shielded Cat. 6 Patch Cord, RJ45 / RJ45, 1.0 ft	Lt. Gray	16.95	15.93	14.92	13.90	12.88
TRD695SCR-2	Shielded Cat. 6 Patch Cord, RJ45 / RJ45, 2.0 ft	Lt. Gray	17.95	16.87	15.80	14.72	13.64
TRD695SCR-3	Shielded Cat. 6 Patch Cord, RJ45 / RJ45, 3.0 ft	Lt. Gray	18.95	17.81	16.68	15.54	14.40
TRD695SCR-5	Shielded Cat. 6 Patch Cord, RJ45 / RJ45, 5.0 ft	Lt. Gray	20.95	19.69	18.44	17.18	15.92
TRD695SCR-7	Shielded Cat. 6 Patch Cord, RJ45 / RJ45, 7.0 ft	Lt. Gray	22.95	21.57	20.20	18.82	17.44
TRD695SCR-10	Shielded Cat. 6 Patch Cord, RJ45 / RJ45, 10.0 ft	Lt. Gray	25.95	24.39	22.84	21.28	19.72
TRD695SCR-15	Shielded Cat. 6 Patch Cord, RJ45 / RJ45, 15.0 ft	Lt. Gray	30.95	29.09	27.24	25.38	23.52
TRD695SCR-25	Shielded Cat. 6 Patch Cord, RJ45 / RJ45, 25.0 ft	Lt. Gray	39.95	37.55	35.16	32.76	30.36
TRD695SCR-50	Shielded Cat. 6 Patch Cord, RJ45 / RJ45, 50.0 ft	Lt. Gray	63.95	60.11	56.28	52.44	48.60
TRD695SCR-75	Shielded Cat. 6 Patch Cord, RJ45 / RJ45, 75.0 ft	Lt. Gray	87.95	82.67	77.40	72.12	66.84
TRD695SCR-100	Shielded Cat. 6 Patch Cord, RJ45 / RJ45, 100.0 ft	Lt. Gray	111.95	105.23	98.52	91.80	85.08

RoHS Category 6 Shielded Patch Cords with LSZH Jacket

This series features a LSZH jacket and a 100% foil shield. The four pair 26 AWG stranded Cat 6 cable is terminated with L-com's unique shielded Cat 6 plugs, with a fully crimped shield termination that doubles as a strain relief.

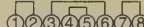
Item #	Description	Color	1-9	10-24	19-32	18.00	16.68
TRD695SZ-1	Shielded Cat. 6 LSZH Patch Cord, RJ45 / RJ45, 1.0 ft	Lt. Gray	21.95	20.63	19.32	18.00	16.68
TRD695SZ-2	Shielded Cat. 6 LSZH Patch Cord, RJ45 / RJ45, 2.0 ft	Lt. Gray	22.95	21.57	20.20	18.82	17.44
TRD695SZ-3	Shielded Cat. 6 LSZH Patch Cord, RJ45 / RJ45, 3.0 ft	Lt. Gray	23.95	22.51	21.08	19.64	18.20
TRD695SZ-5	Shielded Cat. 6 LSZH Patch Cord, RJ45 / RJ45, 5.0 ft	Lt. Gray	25.95	24.39	22.84	21.28	19.72
TRD695SZ-7	Shielded Cat. 6 LSZH Patch Cord, RJ45 / RJ45, 7.0 ft	Lt. Gray	27.95	26.27	24.60	22.92	21.24
TRD695SZ-10	Shielded Cat. 6 LSZH Patch Cord, RJ45 / RJ45, 10.0 ft	Lt. Gray	30.95	29.09	27.24	25.38	23.52
TRD695SZ-15	Shielded Cat. 6 LSZH Patch Cord, RJ45 / RJ45, 15.0 ft	Lt. Gray	35.95	33.79	31.64	29.48	27.32
TRD695SZ-25	Shielded Cat. 6 LSZH Patch Cord, RJ45 / RJ45, 25.0 ft	Lt. Gray	45.95	43.19	40.44	37.68	34.92
TRD695SZ-50	Shielded Cat. 6 LSZH Patch Cord, RJ45 / RJ45, 50.0 ft	Lt. Gray	70.95	66.69	62.44	58.18	53.92
TRD695SZ-75	Shielded Cat. 6 LSZH Patch Cord, RJ45 / RJ45, 75.0 ft	Lt. Gray	95.95	90.19	84.44	78.68	72.92
TRD695SZ-100	Shielded Cat. 6 LSZH Patch Cord, RJ45 / RJ45, 100.0 ft	Lt. Gray	120.95	113.69	106.44	99.18	91.92

Hi-Flex Oil Resistant Category 5E Patch Cords for Industrial Automation Applications

With Ethernet connections now commonplace on PLCs and factory equipment, regular patch cords will not cut it for continuous usage. L-com's line of Hi-Flex oil resistant patch cords is the best solution when true ruggedness is required. With a low friction PUR jacket and a specially designed foamed core, these cables can handle the extreme abuse of constant motion (over a million cycles). L-com's unique 360-degree crimped strain relief ensures this connection remains solid and the termination does not get damaged.

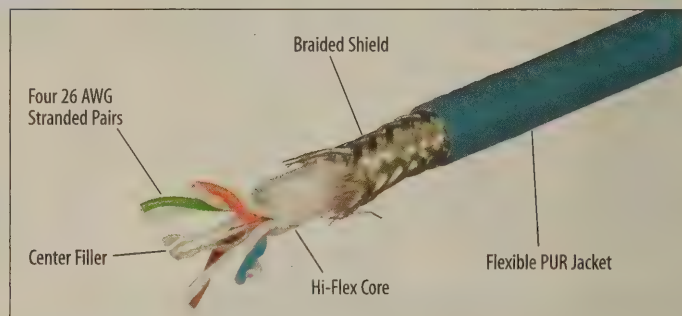
Category 5E Patch Cords

EIA568



Twisted Pair Pinning: 1 & 2, 3 & 6, 4 & 5, 7 & 8.

Category 5E Stranded
4 Pair Cable



TRD855HFX

HIGH-FLEX SHIELDED CATEGORY 5E

- 4 pair 26 AWG stranded
- Oil resistant jacket
- Braid shielding

RoHS Hi-Flex Oil Resistant Category 5E Patch Cords

This series features 26 AWG stranded conductors and a braided shield. The outer jacket is low-friction halogen-free PUR that is perfect for cable track applications.

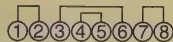
Item #	Description	Color	40.95	38.49	36.04	33.58	31.12
TRD855HFX-1	Shielded Cat. 5E Hi-Flex Patch Cord, RJ45 / RJ45, 1.0 ft	Green	40.95	38.49	36.04	33.58	31.12
TRD855HFX-2	Shielded Cat. 5E Hi-Flex Patch Cord, RJ45 / RJ45, 2.0 ft	Green	45.95	43.19	40.44	37.68	34.92
TRD855HFX-3	Shielded Cat. 5E Hi-Flex Patch Cord, RJ45 / RJ45, 3.0 ft	Green	51.95	48.83	45.72	42.60	39.48
TRD855HFX-5	Shielded Cat. 5E Hi-Flex Patch Cord, RJ45 / RJ45, 5.0 ft	Green	62.95	59.17	55.40	51.62	47.84
TRD855HFX-7	Shielded Cat. 5E Hi-Flex Patch Cord, RJ45 / RJ45, 7.0 ft	Green	73.95	69.51	65.08	60.64	56.20
TRD855HFX-10	Shielded Cat. 5E Hi-Flex Patch Cord, RJ45 / RJ45, 10.0 ft	Green	90.95	85.49	80.04	74.58	69.12
TRD855HFX-15	Shielded Cat. 5E Hi-Flex Patch Cord, RJ45 / RJ45, 15.0 ft	Green	119.95	112.75	105.56	98.36	91.16
TRD855HFX-25	Shielded Cat. 5E Hi-Flex Patch Cord, RJ45 / RJ45, 25.0 ft	Green	175.95	165.39	154.84	144.28	133.72
TRD855HFX-50	Shielded Cat. 5E Hi-Flex Patch Cord, RJ45 / RJ45, 50.0 ft	Green	316.95	297.93	278.92	259.90	240.88
TRD855HFX-75	Shielded Cat. 5E Hi-Flex Patch Cord, RJ45 / RJ45, 75.0 ft	Green	456.95	429.53	402.12	374.70	347.28
TRD855HFX-100	Shielded Cat. 5E Hi-Flex Patch Cord, RJ45 / RJ45, 100.0 ft	Green	597.95	562.07	526.20	490.32	454.44

RoHS Premium Category 5E RJ45 Molded Ethernet Patch Cords

Designed for today's high-density patch panels, these unique Category 5E molded patch cords feature an easy to depress "shark fin" snagless mold boot that makes connecting cables easier. The clear boot also allows the color of each cable to be easily seen to each port for easy cable identification. Each cable is tested for Category 5E performance to ensure maximum speed out of the network. Contact us today for your patch cord needs!

Category 5E Patch Cords

EIA568



Twisted Pair Pinning: 1 & 2, 3 & 6, 4 & 5, 7 & 8.

Category 5E 4 Pair Stranded Cable


50 microinches
Gold plated
contacts

UL 94V-0
Polycarbonate body

Fully Molded
Strain relief

Category 5E
4 pair stranded cable

"Shark Fin"
Snagless Boot


BL

BLK

GR

V

OR

R

GRY

Y

WHT

Ordering is easy, add the desired color code to the part number. Ex: TRD815BL-3

Item #	Description	Length	1-9	10-24	25-99	100-249	250-499
TRD815__-3	Category 5E Patch Cord, RJ45 / RJ45	3.0 ft	3.99	3.59	3.19	2.79	2.39
TRD815__-5	Category 5E Patch Cord, RJ45 / RJ45	5.0 ft	4.99	4.49	3.99	3.49	2.99
TRD815__-7	Category 5E Patch Cord, RJ45 / RJ45	7.0 ft	5.99	5.39	4.79	4.19	3.59
TRD815__-10	Category 5E Patch Cord, RJ45 / RJ45	10.0 ft	6.99	6.29	5.59	4.89	4.19
TRD815__-14	Category 5E Patch Cord, RJ45 / RJ45	14.0 ft	8.99	8.09	7.19	6.29	5.39
TRD815__-25	Category 5E Patch Cord, RJ45 / RJ45	25.0 ft	13.99	12.59	11.19	9.79	8.39
TRD815__-50	Category 5E Patch Cord, RJ45 / RJ45	50.0 ft	24.99	22.49	19.99	17.49	14.99
TRD815__-75	Category 5E Patch Cord, RJ45 / RJ45	75.0 ft	35.99	32.39	28.79	25.19	21.59
TRD815__-100	Category 5E Patch Cord, RJ45 / RJ45	100.0 ft	46.99	42.29	37.59	32.89	28.19


Tip

Network cable performance testing - be sure to choose the right cable for your needs

Testing of cable assemblies is often an overlooked issue when it comes to Ethernet Patch Cords. A cable that uses Category 5E components may not really be Category 5E compliant. Economy grade cables are typically only tested for continuity whereas a certified patch cable is checked against the actual standard for performance criteria. Your level of requirement many not need a certified cable so if you are not sure give us a call and let us help you choose the perfect cable for your installation.

Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
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RoHS Premium Category 5E RJ45 Molded Crossover Ethernet Patch Cords

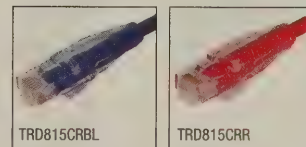
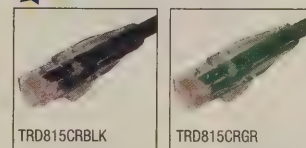
Also designed for today's high-density patch panels, these unique Category 5E molded patch cords feature an easy to depress "shark fin" snagless mold boot that makes connecting cables effortless. The clear boot also allows the color of each cable to be easily seen up to each port for easy cable identification. Each cable is crossover wired (EIA568A/B) for usage as either uplink connections or for direct connecting of two computers. Contact us today for all your patch cord needs!

TRD815CRBLK-3	10/100Base-T Crossover Patch Cord, 3.0 ft	Black	3.99	3.59	3.19	2.79	2.39
TRD815CRBLK-7	10/100Base-T Crossover Patch Cord, 7.0 ft	Black	5.99	5.39	4.79	4.19	3.59
TRD815CRBLK-10	10/100Base-T Crossover Patch Cord, 10.0 ft	Black	6.99	6.29	5.59	4.89	4.19
TRD815CRBLK-15	10/100Base-T Crossover Patch Cord, 15.0 ft	Black	8.99	8.09	7.19	6.29	5.39
TRD815CRGR-3	10/100Base-T Crossover Patch Cord, 3.0 ft	Green	3.99	3.59	3.19	2.79	2.39
TRD815CRGR-7	10/100Base-T Crossover Patch Cord, 7.0 ft	Green	5.99	5.39	4.79	4.19	3.59
TRD815CRGR-10	10/100Base-T Crossover Patch Cord, 10.0 ft	Green	6.99	6.29	5.59	4.89	4.19
TRD815CRGR-15	10/100Base-T Crossover Patch Cord, 15.0 ft	Green	8.99	8.09	7.19	6.29	5.39
TRD815CRBL-3	10/100Base-T Crossover Patch Cord, 3.0 ft	Blue	3.99	3.59	3.19	2.79	2.39
TRD815CRBL-7	10/100Base-T Crossover Patch Cord, 7.0 ft	Blue	5.99	5.39	4.79	4.19	3.59
TRD815CRBL-10	10/100Base-T Crossover Patch Cord, 10.0 ft	Blue	6.99	6.29	5.59	4.89	4.19
TRD815CRBL-15	10/100Base-T Crossover Patch Cord, 15.0 ft	Blue	8.99	8.09	7.19	6.29	5.39
TRD815CRR-3	10/100Base-T Crossover Patch Cord, 3.0 ft	Red	3.99	3.59	3.19	2.79	2.39
TRD815CRR-7	10/100Base-T Crossover Patch Cord, 7.0 ft	Red	5.99	5.39	4.79	4.19	3.59
TRD815CRR-10	10/100Base-T Crossover Patch Cord, 10.0 ft	Red	6.99	6.29	5.59	4.89	4.19
TRD815CRR-15	10/100Base-T Crossover Patch Cord, 15.0 ft	Red	8.99	8.09	7.19	6.29	5.39
TRD815CRY-3	10/100Base-T Crossover Patch Cord, 3.0 ft	Yellow	3.99	3.59	3.19	2.79	2.39
TRD815CRY-7	10/100Base-T Crossover Patch Cord, 7.0 ft	Yellow	5.99	5.39	4.79	4.19	3.59
TRD815CRY-10	10/100Base-T Crossover Patch Cord, 10.0 ft	Yellow	6.99	6.29	5.59	4.89	4.19
TRD815CRY-15	10/100Base-T Crossover Patch Cord, 15.0 ft	Yellow	8.99	8.09	7.19	6.29	5.39

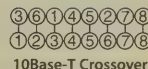
10/100Base-T Crossover Patch Cords

24 AWG
Stranded
2 Pair


TRD815CRY


Best Seller


10/100Base-T Crossover Patch Cords



10Base-T Crossover

The new premium Category 5E "Shark Fin" patch cords

See the complete list and more info at L-com.com/SharkFin

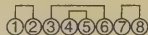
L-com® Global Connectivity

RoHS Premium Category 6 RJ45 Hi-Speed Network Patch Cords

Realistic pricing and high quality is what makes L-com's Category 6 patch cords the right choice. Made with high performance 4-pair Category 6 cable and Stewart snagless plugs, these cables are ready to be installed in your network. Affordability and peace of mind are assured when choosing L-com's patch cords. Large volume OEM requests are welcomed with this series. Contact us today for all your patch cord needs.

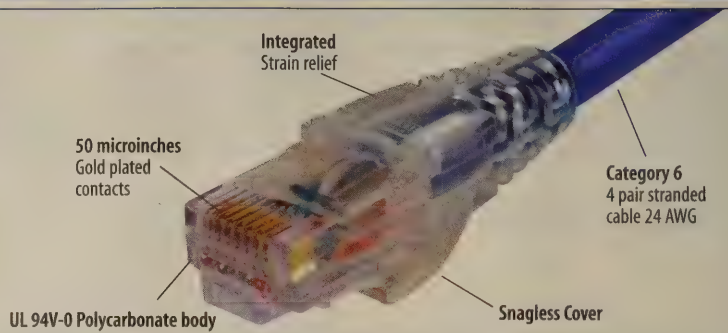
Category 6 Patch Cords

EIA568



Twisted Pair Pinning: 1 & 2, 3 & 6, 4 & 5, 7 & 8.

Category 6 Stranded
4 Pair Cable



BLK BL GR R Y GRY WHT

Ordering is easy, add the desired color code to the part number. Ex: TRD695BLK-1

Item #	Description	Length	1-9	10-24	25-99	100-249	250-499
TRD695 _-1	Category 6 Patch Cord, RJ45 / RJ45	1.0 ft	5.99	5.87	5.63	5.27	4.49
TRD695 _-3	Category 6 Patch Cord, RJ45 / RJ45	3.0 ft	6.99	6.85	6.57	6.15	5.24
TRD695 _-5	Category 6 Patch Cord, RJ45 / RJ45	5.0 ft	7.99	7.83	7.51	7.03	5.99
TRD695 _-7	Category 6 Patch Cord, RJ45 / RJ45	7.0 ft	8.99	8.81	8.45	7.91	6.74
TRD695 _-10	Category 6 Patch Cord, RJ45 / RJ45	10.0 ft	10.99	10.77	10.33	9.67	8.24
TRD695 _-14	Category 6 Patch Cord, RJ45 / RJ45	14.0 ft	12.99	12.73	12.21	11.43	9.74
TRD695 _-25	Category 6 Patch Cord, RJ45 / RJ45	25.0 ft	17.99	17.63	16.91	15.83	13.49
TRD695 _-50	Category 6 Patch Cord, RJ45 / RJ45	50.0 ft	29.99	29.39	28.19	26.39	22.49
TRD695 _-75	Category 6 Patch Cord, RJ45 / RJ45	75.0 ft	41.99	41.15	39.47	36.95	31.49
TRD695 _-100	Category 6 Patch Cord, RJ45 / RJ45	100.0 ft	53.99	52.91	50.75	47.51	40.49



Item #	Description	1-9	10-24	25-99	100-249	250-499
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RoHS High Performance Category 6 Staggered Alignment Plugs with Loading Bars

This staggered alignment plug will accommodate typical 24 gauge solid or stranded cable. Fully compatible with Category 6 applications. They are specially designed with a multi-level contact configuration and loading bars for precise control of pairing arrangement. This controls the distance between critical pairs that provide lower levels of crosstalk and higher performance. Sold only in packages of 50 plugs.

TSP4288C6	Modular Plugs, RJ45(8x8) Category 6, Pkg/50	49.95	45.95	41.96	37.96	CALL
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RoHS Premium Panel Mounted Modular Coupler Kits - Shielded and Unshielded Category 6

These unique coupler kits allow panel mounting in virtually any panel thickness. A solid die-cast metal mounting frame provides secure mounting and reliable grounding. Kits include a snap-in coupler, mounting frame and two 4-40 machine screws.

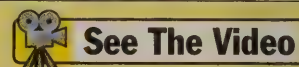
ECF504-C6	Category 6 Unshielded RJ45 (8x8) Deluxe Panel Coupler Kit	11.95	10.99	10.04	9.08	8.13
ECF504-SC6	Category 6 Shielded RJ45 (8x8) Deluxe Panel Coupler Kit	13.95	12.83	11.72	10.60	9.49

RoHS RJ45 (8x8) Keystone Feed-thru Couplers - Shielded and Unshielded Category 6

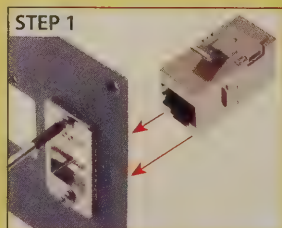
These couplers utilize two RJ45 (8x8) modular jacks and fit into a standard keystone style opening. A slim housing design permits high density mounting. Couplers listed include 6 performance ratings in shielded and unshielded versions. Connector housings enclosed within a fully stamped shielding. Designed to work with EIA/TIA 568A and B wiring.

TDG1026KC6	Category 6 Unshielded RJ45 (8x8) Keystone Feed-thru Coupler	9.95	8.96	7.96	6.97	5.97
TDG1026KS-C6	Category 6 Shielded RJ45 (8x8) Keystone Feed-thru Coupler	12.95	11.66	10.36	9.07	7.77

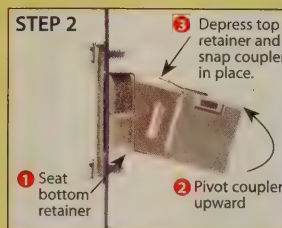
Easily install a premium ECF coupler kit



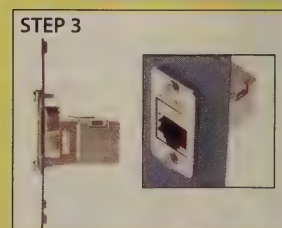
www.l-com.com/Videos/A09



Secure frame in specified opening with supplied hardware and align coupler in proper orientation to the opening.



Seat bottom retainer and pivot coupler upward while depressing upper retainer.



Coupler fully seated.



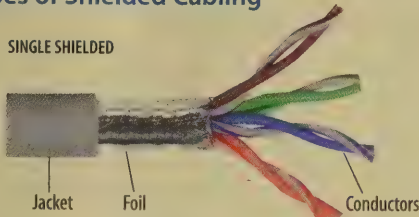
Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
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Shielded Category 5E Patch Cords with RJ45 (8x8) and RJ11 (6x4) Connectors

These screened (shielded) patch cords are great for a variety of electrically noisy environments where EMI is an issue. They utilize two or four pair cabling covered by a foil or foil-braid shield. Now available in flexible PVC, plenum and Low Smoke Zero Halogen jacket formulations. Assemblies are 100% tested and individually bagged.

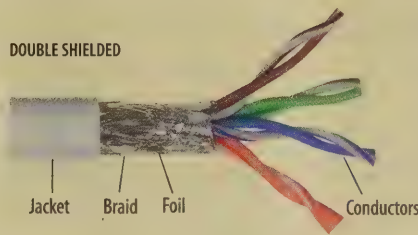
Types of Shielded Cabling

SINGLE SHIELDED



Jacket Foil Conductors

DOUBLE SHIELDED



Jacket Braid Foil Conductors

JACKET TYPES:

PVC - Non fire retardant, releases toxic gases when burned.
LSZH - Fire retardant, greatly reduced toxic emissions when burned.
Plenum - Fire retardant.

CONDUCTOR TYPES:

Solid - Less flexible, can be punched into IDC connectors (110, 66, Krone).
Stranded - Most flexible.

RoHS Category 5E Shielded RJ11 to RJ11 Patch Cords - 2 Pair USOC Wiring

TRDU45SCR-2	Shielded Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 2.0 ft	Beige	4.90	4.41	3.92	3.43	2.94
TRDU45SCR-3	Shielded Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 3.0 ft	Beige	5.35	4.82	4.28	3.75	3.21
TRDU45SCR-5	Shielded Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 5.0 ft	Beige	6.25	5.63	5.00	4.38	3.75
TRDU45SCR-7	Shielded Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 7.0 ft	Beige	7.15	6.44	5.72	5.01	4.29
TRDU45SCR-10	Shielded Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 10.0 ft	Beige	8.50	7.65	6.80	5.95	5.10
TRDU45SCR-15	Shielded Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 15.0 ft	Beige	10.75	9.68	8.60	7.53	6.45
TRDU45SCR-25	Shielded Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 25.0 ft	Beige	15.25	13.73	12.20	10.68	9.15
TRDU45SCR-50	Shielded Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 50.0 ft	Beige	26.50	23.85	21.20	18.55	15.90
TRDU45SCR-100	Shielded Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 100.0 ft	Beige	49.00	44.10	39.20	34.30	29.40

Twisted Pair Pinning: 2 & 5, 3 & 4.

RoHS Category 5E Shielded RJ45 to RJ45 Patch Cords - 4 Pair For EIA568A and B Wiring

TRD855SCR-1	Shielded Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 1.0 ft	Ivory	7.69	7.07	6.46	5.84	5.23
TRD855SCR-2	Shielded Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 2.0 ft	Ivory	8.19	7.53	6.88	6.22	5.57
TRD855SCR-3	Shielded Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 3.0 ft	Ivory	8.79	8.09	7.38	6.68	5.98
TRD855SCR-5	Shielded Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 5.0 ft	Ivory	9.89	9.10	8.31	7.52	6.73
TRD855SCR-7	Shielded Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 7.0 ft	Ivory	10.99	10.11	9.23	8.35	7.47
TRD855SCR-10	Shielded Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 10.0 ft	Ivory	12.59	11.58	10.58	9.57	8.56
TRD855SCR-15	Shielded Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 15.0 ft	Ivory	15.39	14.16	12.93	11.70	10.47
TRD855SCR-20	Shielded Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 20.0 ft	Ivory	18.09	16.64	15.20	13.75	12.30
TRD855SCR-25	Shielded Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 25.0 ft	Ivory	20.89	19.22	17.55	15.88	14.21
TRD855SCR-30	Shielded Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 30.0 ft	Ivory	23.59	21.70	19.82	17.93	16.04
TRD855SCR-40	Shielded Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 40.0 ft	Ivory	29.09	26.76	24.44	22.11	19.78
TRD855SCR-50	Shielded Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 50.0 ft	Ivory	34.69	31.91	29.14	26.36	23.59
TRD855SCR-75	Shielded Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 75.0 ft	Ivory	48.39	44.52	40.65	36.78	32.91
TRD855SCR-100	Shielded Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 100.0 ft	Ivory	62.19	57.21	52.24	47.26	42.29

Twisted Pair Pinning: 1 & 2, 3 & 6, 4 & 5, 7 & 8.

RoHS Category 5E RJ45 to RJ45 Shielded Plenum Patch Cords - 4 Pair Solid for EIA568A & B Wiring

TRD855SPL-1	Shielded Cat. 5E Plenum Patch Cord, RJ45 / RJ45, 1.0 ft	Blue	24.99	24.49	23.49	21.99	18.74
TRD855SPL-2	Shielded Cat. 5E Plenum Patch Cord, RJ45 / RJ45, 2.0 ft	Blue	26.49	25.96	24.90	23.31	19.87
TRD855SPL-3	Shielded Cat. 5E Plenum Patch Cord, RJ45 / RJ45, 3.0 ft	Blue	27.99	27.43	26.31	24.63	20.97
TRD855SPL-5	Shielded Cat. 5E Plenum Patch Cord, RJ45 / RJ45, 5.0 ft	Blue	30.99	30.37	29.13	27.27	23.24
TRD855SPL-7	Shielded Cat. 5E Plenum Patch Cord, RJ45 / RJ45, 7.0 ft	Blue	33.99	33.31	31.95	29.91	25.49
TRD855SPL-10	Shielded Cat. 5E Plenum Patch Cord, RJ45 / RJ45, 10.0 ft	Blue	38.49	37.72	36.18	33.87	28.87
TRD855SPL-15	Shielded Cat. 5E Plenum Patch Cord, RJ45 / RJ45, 15.0 ft	Blue	45.99	45.07	43.23	40.47	34.49
TRD855SPL-25	Shielded Cat. 5E Plenum Patch Cord, RJ45 / RJ45, 25.0 ft	Blue	60.99	59.77	57.33	53.67	45.74
TRD855SPL-50	Shielded Cat. 5E Plenum Patch Cord, RJ45 / RJ45, 50.0 ft	Blue	98.49	96.52	92.58	86.67	73.87
TRD855SPL-75	Shielded Cat. 5E Plenum Patch Cord, RJ45 / RJ45, 75.0 ft	Blue	135.99	133.27	127.83	119.67	101.99
TRD855SPL-100	Shielded Cat. 5E Plenum Patch Cord, RJ45 / RJ45, 100.0 ft	Blue	173.49	170.02	163.08	152.67	130.12
TRD855SPL-150	Shielded Cat. 5E Plenum Patch Cord, RJ45 / RJ45, 150.0 ft	Blue	248.49	243.52	233.58	218.67	186.37
TRD855SPL-200	Shielded Cat. 5E Plenum Patch Cord, RJ45 / RJ45, 200.0 ft	Blue	323.49	317.02	304.08	284.67	242.62
TRD855SPL-250	Shielded Cat. 5E Plenum Patch Cord, RJ45 / RJ45, 250.0 ft	Blue	398.49	390.52	374.58	350.67	298.87
TRD855SPL-300	Shielded Cat. 5E Plenum Patch Cord, RJ45 / RJ45, 300.0 ft	Blue	473.49	464.02	445.08	416.67	355.12

Twisted Pair Pinning: 1 & 2, 3 & 6, 4 & 5, 7 & 8.

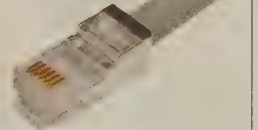
RoHS Category 5E RJ45 to RJ45 Crossover Patch Cords

TRD855XCR-2	Cat. 5E Crossover Patch Cord, RJ45 / RJ45, 2.0 ft	Lt. Gray	8.59	7.73	6.87	6.01	5.15
TRD855XCR-3	Cat. 5E Crossover Patch Cord, RJ45 / RJ45, 3.0 ft	Lt. Gray	9.19	8.27	7.35	6.43	5.51
TRD855XCR-5	Cat. 5E Crossover Patch Cord, RJ45 / RJ45, 5.0 ft	Lt. Gray	10.29	9.26	8.23	7.20	6.17
TRD855XCR-7	Cat. 5E Crossover Patch Cord, RJ45 / RJ45, 7.0 ft	Lt. Gray	11.39	10.25	9.11	7.97	6.83
TRD855XCR-10	Cat. 5E Crossover Patch Cord, RJ45 / RJ45, 10.0 ft	Lt. Gray	12.99	11.69	10.39	9.09	7.79
TRD855XCR-15	Cat. 5E Crossover Patch Cord, RJ45 / RJ45, 15.0 ft	Lt. Gray	15.79	14.21	12.63	11.05	9.47
TRD855XCR-25	Cat. 5E Crossover Patch Cord, RJ45 / RJ45, 25.0 ft	Lt. Gray	21.29	19.16	17.03	14.90	12.77
TRD855XCR-50	Cat. 5E Crossover Patch Cord, RJ45 / RJ45, 50.0 ft	Lt. Gray	34.99	31.49	27.99	24.49	20.99
TRD855XCR-75	Cat. 5E Crossover Patch Cord, RJ45 / RJ45, 75.0 ft	Lt. Gray	48.79	43.91	39.03	34.15	29.27
TRD855XCR-100	Cat. 5E Crossover Patch Cord, RJ45 / RJ45, 100.0 ft	Lt. Gray	62.49	56.24	49.99	43.74	37.49

Twisted Pair Pinning: 1 & 2, 3 & 6, 4 & 5, 7 & 8.

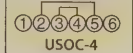
Screened (Shielded) Patch Cords

TRDU45SCR

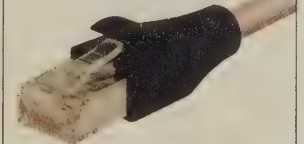


SHIELDED CATEGORY 5E

- 2 pair 26 AWG stranded
- PVC jacket
- Foil shielding

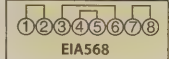


TRD855SCR

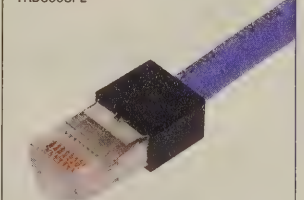


SHIELDED CATEGORY 5E

- 4 pair 26 AWG stranded
- PVC jacket
- Foil shielding



TRD855SPL

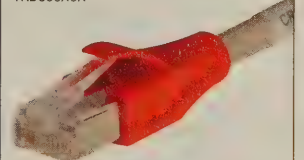


SHIELDED CATEGORY 5E

- 4 pair 24 AWG solid
- Plenum rated
- Foil shielding

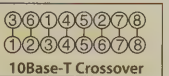


TRD855XCR



SHIELDED CATEGORY 5E

- 4 pair crossover wired
- 26 AWG stranded conductors
- PVC jacket
- Foil shielding



Did you know...

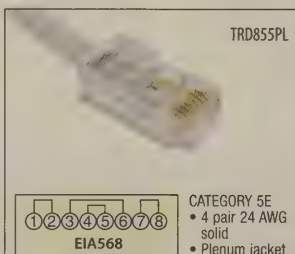
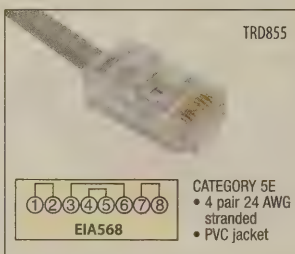
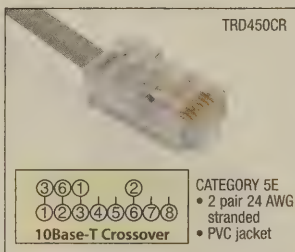
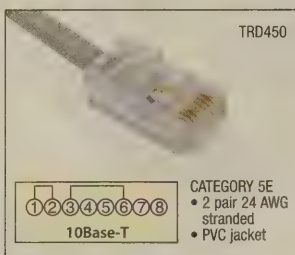
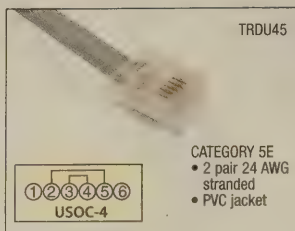
Category 5E cables support Gigabit Ethernet (1000 Mbps) applications as defined by 802.3ab?

We answer your technical questions

See a complete list of frequently asked questions at L-com.com/FAQS

L-com Global Connectivity

Unshielded Patch Cords



Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
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Unshielded Twisted Pair Patch Cords - Category 5E, For Most Network Environments

L-com offers the highest grade Category 5E patch cords for use in today's rapidly changing network environments. Category 5E calls for 100 MHz bandwidth @ 100 Mbps data rate which is currently more than adequate for standard Ethernet and Token Ring environments. Unshielded assemblies are manufactured with UL Listed 24 AWG stranded cable with PVC jacket. Plugs have 50 microinches of gold; assemblies tested 100% prior to shipping.

RoHS Category 5E RJ11 to RJ11 Patch Cords - 2 Pair Stranded for 4 and 16Mb Token Ring

TRDU45-2	Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 2.0 ft	Beige	3.36	3.16	2.96	2.76	2.55
TRDU45-3	Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 3.0 ft	Beige	3.60	3.38	3.17	2.95	2.74
TRDU45-5	Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 5.0 ft	Beige	4.08	3.84	3.59	3.35	3.10
TRDU45-7	Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 7.0 ft	Beige	4.56	4.29	4.01	3.74	3.47
TRDU45-10	Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 10.0 ft	Beige	5.28	4.96	4.65	4.33	4.01
TRDU45-15	Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 15.0 ft	Beige	6.48	6.09	5.70	5.31	4.92
TRDU45-25	Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 25.0 ft	Beige	8.88	8.35	7.81	7.28	6.75
TRDU45-50	Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 50.0 ft	Beige	14.88	13.99	13.09	12.20	11.31
TRDU45-100	Cat. 5E USOC-4 Patch Cord, RJ11 / RJ11, 100.0 ft	Beige	26.88	25.27	23.65	22.04	20.43

Twisted Pair Pinning: 2 & 5, 3 & 4.

RoHS Category 5E RJ45 to RJ45 Patch Cords - 2 Pair Stranded AWG24 for 10Base-T Ethernet

TRD450-2	Cat. 5E 10Base-T Patch Cord, RJ45 / RJ45, 2.0 ft	Beige	4.48	4.21	3.94	3.67	3.40
TRD450-3	Cat. 5E 10Base-T Patch Cord, RJ45 / RJ45, 3.0 ft	Beige	4.72	4.44	4.15	3.87	3.59
TRD450-5	Cat. 5E 10Base-T Patch Cord, RJ45 / RJ45, 5.0 ft	Beige	5.20	4.89	4.58	4.26	3.95
TRD450-7	Cat. 5E 10Base-T Patch Cord, RJ45 / RJ45, 7.0 ft	Beige	5.68	5.34	5.00	4.66	4.32
TRD450-10	Cat. 5E 10Base-T Patch Cord, RJ45 / RJ45, 10.0 ft	Beige	6.40	6.02	5.63	5.25	4.86
TRD450-15	Cat. 5E 10Base-T Patch Cord, RJ45 / RJ45, 15.0 ft	Beige	7.60	7.14	6.69	6.23	5.78
TRD450-25	Cat. 5E 10Base-T Patch Cord, RJ45 / RJ45, 25.0 ft	Beige	10.00	9.40	8.80	8.20	7.60
TRD450-50	Cat. 5E 10Base-T Patch Cord, RJ45 / RJ45, 50.0 ft	Beige	16.00	15.04	14.08	13.12	12.16
TRD450-100	Cat. 5E 10Base-T Patch Cord, RJ45 / RJ45, 100.0 ft	Beige	28.00	26.32	24.64	22.96	21.28

Twisted Pair Pinning: 1 & 2, 3 & 6.

RoHS Category 5E RJ45 to RJ45 Crossover Patch Cords - 2 Pair Stranded for Ethernet Hub Stacking

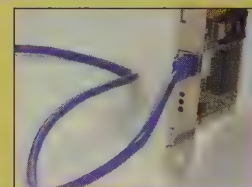
TRD450CR-2	Cat. 5E 10Base-T Crossover Patch Cord, RJ45 / RJ45, 2.0 ft	Beige	4.48	4.21	3.94	3.67	3.40
TRD450CR-3	Cat. 5E 10Base-T Crossover Patch Cord, RJ45 / RJ45, 3.0 ft	Beige	4.72	4.44	4.15	3.87	3.59
TRD450CR-5	Cat. 5E 10Base-T Crossover Patch Cord, RJ45 / RJ45, 5.0 ft	Beige	5.20	4.89	4.58	4.26	3.95
TRD450CR-7	Cat. 5E 10Base-T Crossover Patch Cord, RJ45 / RJ45, 7.0 ft	Beige	5.68	5.34	5.00	4.66	4.32
TRD450CR-10	Cat. 5E 10Base-T Crossover Patch Cord, RJ45 / RJ45, 10.0 ft	Beige	6.40	6.02	5.63	5.25	4.86
TRD450CR-15	Cat. 5E 10Base-T Crossover Patch Cord, RJ45 / RJ45, 15.0 ft	Beige	7.60	7.14	6.69	6.23	5.78
TRD450CR-25	Cat. 5E 10Base-T Crossover Patch Cord, RJ45 / RJ45, 25.0 ft	Beige	10.00	9.40	8.80	8.20	7.60
TRD450CR-50	Cat. 5E 10Base-T Crossover Patch Cord, RJ45 / RJ45, 50.0 ft	Beige	16.00	15.04	14.08	13.12	12.16
TRD450CR-100	Cat. 5E 10Base-T Crossover Patch Cord, RJ45 / RJ45, 100.0 ft	Beige	28.00	26.32	24.64	22.96	21.28

1 & 2, 3 & 6 Crossover allows Ethernet Hub Stacking.



Which patch cords are best for a 10/100Mbps Ethernet network?

Any of the TRD855 series patch cords found on pages 23-27 will work effectively for ethernet networks. Choosing different colors for separate network segments in your wiring closet makes troubleshooting quick and easy.



RoHS Category 5E RJ45 to RJ45 Patch Cords - 4 Pair Stranded for 10Base-T, EIA568A and B Wiring

TRD855-1	Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 1.0 ft	Beige	3.59	3.23	2.87	2.51	2.15
TRD855-2	Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 2.0 ft	Beige	3.89	3.50	3.11	2.72	2.33
TRD855-3	Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 3.0 ft	Beige	4.19	3.77	3.35	2.93	2.51
TRD855-5	Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 5.0 ft	Beige	4.79	4.31	3.83	3.35	2.87
TRD855-7	Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 7.0 ft	Beige	5.39	4.85	4.31	3.77	3.23
TRD855-10	Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 10.0 ft	Beige	6.29	5.66	5.03	4.40	3.77
TRD855-15	Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 15.0 ft	Beige	7.79	7.01	6.23	5.45	4.67
TRD855-25	Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 25.0 ft	Beige	10.79	9.71	8.63	7.55	6.47
TRD855-50	Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 50.0 ft	Beige	18.29	16.46	14.63	12.80	10.97
TRD855-100	Cat. 5E EIA568 Patch Cord, RJ45 / RJ45, 100.0 ft	Beige	33.29	29.96	26.63	23.30	19.97

Twisted Pair Pinning: 1 & 2, 3 & 6, 4 & 5, 7 & 8.

RoHS Category 5E RJ45 to RJ45 Plenum Patch Cords - 4 Pair Solid for EIA568A and B Wiring

TRD855PL-1	Cat. 5E EIA568 Plenum Patch Cord, RJ45 / RJ45, 1.0 ft	Beige	11.99	11.75	11.27	10.55	8.99
TRD855PL-2	Cat. 5E EIA568 Plenum Patch Cord, RJ45 / RJ45, 2.0 ft	Beige	12.49	12.24	11.74	10.99	9.37
TRD855PL-3	Cat. 5E EIA568 Plenum Patch Cord, RJ45 / RJ45, 3.0 ft	Beige	12.99	12.73	12.21	11.43	9.74
TRD855PL-5	Cat. 5E EIA568 Plenum Patch Cord, RJ45 / RJ45, 5.0 ft	Beige	13.99	13.71	13.15	12.31	10.49
TRD855PL-7	Cat. 5E EIA568 Plenum Patch Cord, RJ45 / RJ45, 7.0 ft	Beige	15.49	15.18	14.56	13.63	11.62
TRD855PL-10	Cat. 5E EIA568 Plenum Patch Cord, RJ45 / RJ45, 10.0 ft	Beige	16.99	16.65	15.97	14.95	12.74
TRD855PL-15	Cat. 5E EIA568 Plenum Patch Cord, RJ45 / RJ45, 15.0 ft	Beige	19.99	19.59	18.79	17.59	14.99
TRD855PL-25	Cat. 5E EIA568 Plenum Patch Cord, RJ45 / RJ45, 25.0 ft	Beige	25.99	25.47	24.43	22.87	19.49
TRD855PL-50	Cat. 5E EIA568 Plenum Patch Cord, RJ45 / RJ45, 50.0 ft	Beige	40.99	40.17	38.53	36.07	30.74
TRD855PL-75	Cat. 5E EIA568 Plenum Patch Cord, RJ45 / RJ45, 75.0 ft	Beige	55.99	54.87	52.63	49.27	41.99
TRD855PL-100	Cat. 5E EIA568 Plenum Patch Cord, RJ45 / RJ45, 100.0 ft	Beige	70.99	69.57	66.73	62.47	53.24
TRD855PL-150	Cat. 5E EIA568 Plenum Patch Cord, RJ45 / RJ45, 150.0 ft	Beige	100.99	98.97	94.93	88.87	75.74
TRD855PL-200	Cat. 5E EIA568 Plenum Patch Cord, RJ45 / RJ45, 200.0 ft	Beige	130.99	128.37	123.13	115.27	98.24
TRD855PL-250	Cat. 5E EIA568 Plenum Patch Cord, RJ45 / RJ45, 250.0 ft	Beige	160.99	157.77	151.33	141.67	120.74
TRD855PL-300	Cat. 5E EIA568 Plenum Patch Cord, RJ45 / RJ45, 300.0 ft	Beige	190.99	187.17	179.53	168.07	143.24

Twisted Pair Pinning: 1 & 2, 3 & 6, 4 & 5, 7 & 8.

Item #	Description	1-9	10-24	25-99	100-249	250-499
RoHS Flat Silver Satin Modular Cable - Plug to Tinned Wires						
Silver satin flat modular cords with one modular plug and pre-tinned wires. Choose four conductor (RJ11), six conductor (RJ12) or eight conductor (RJ45).						
TDC019-1	Flat Modular Cable, RJ11 (6x4) / Tinned End, 1.0 ft	1.75	1.72	1.65	1.54	1.31
TDC019-2	Flat Modular Cable, RJ11 (6x4) / Tinned End, 2.0 ft	1.95	1.91	1.83	1.72	1.46
TDC019-7	Flat Modular Cable, RJ11 (6x4) / Tinned End, 7.0 ft	2.25	2.21	2.11	1.98	1.69
TDC029-1	Flat Modular Cable, RJ12 (6x6) / Tinned End, 1.0 ft	2.50	2.45	2.35	2.20	1.88
TDC029-2	Flat Modular Cable, RJ12 (6x6) / Tinned End, 2.0 ft	2.75	2.70	2.59	2.42	2.06
TDC029-7	Flat Modular Cable, RJ12 (6x6) / Tinned End, 7.0 ft	3.50	3.43	3.29	3.08	2.63
TDC029-14	Flat Modular Cable, RJ12 (6x6) / Tinned End, 14.0 ft	5.00	4.90	4.70	4.40	3.75
TDC005-1	Flat Modular Cable, RJ45 (8x8) / Tinned End, 1.0 ft	3.00	2.94	2.82	2.64	2.25
TDC005-2	Flat Modular Cable, RJ45 (8x8) / Tinned End, 2.0 ft	3.25	3.19	3.06	2.86	2.44
TDC005-7	Flat Modular Cable, RJ45 (8x8) / Tinned End, 7.0 ft	4.50	4.41	4.23	3.96	3.38
TDC005-14	Flat Modular Cable, RJ45 (8x8) / Tinned End, 14.0 ft	6.25	6.13	5.88	5.50	4.69

RoHS Flat Silver Satin Modular Cable - Plug to Spade Lugs

Silver satin flat modular cords with one modular plug and uninsulated spade lugs. Great for terminating to screw terminals. Choose four conductor (RJ11), six conductor (RJ12) or eight conductor (RJ45).

TDC018-1	Flat Modular Cable, RJ11 (6x4) / Spade Lug, 1.0 ft	1.75	1.72	1.65	1.54	1.31
TDC018-2	Flat Modular Cable, RJ11 (6x4) / Spade Lug, 2.0 ft	1.95	1.91	1.83	1.72	1.46
TDC018-7	Flat Modular Cable, RJ11 (6x4) / Spade Lug, 7.0 ft	2.25	2.21	2.11	1.98	1.69
TDC018-14	Flat Modular Cable, RJ11 (6x4) / Spade Lug, 14.0 ft	3.25	3.19	3.06	2.86	2.44
TDC028-1	Flat Modular Cable, RJ12 (6x6) / Spade Lug, 1.0 ft	2.50	2.45	2.35	2.20	1.88
TDC028-2	Flat Modular Cable, RJ12 (6x6) / Spade Lug, 2.0 ft	2.75	2.70	2.59	2.42	2.06
TDC028-7	Flat Modular Cable, RJ12 (6x6) / Spade Lug, 7.0 ft	3.75	3.68	3.53	3.30	2.81
TDC028-14	Flat Modular Cable, RJ12 (6x6) / Spade Lug, 14.0 ft	5.00	4.90	4.70	4.40	3.75
TDC004-1	Flat Modular Cable, RJ45 (8x8) / Spade Lug, 1.0 ft	3.00	2.94	2.82	2.64	2.25
TDC004-2	Flat Modular Cable, RJ45 (8x8) / Spade Lug, 2.0 ft	3.25	3.19	3.06	2.86	2.44
TDC004-7	Flat Modular Cable, RJ45 (8x8) / Spade Lug, 7.0 ft	4.50	4.41	4.23	3.96	3.38
TDC004-14	Flat Modular Cable, RJ45 (8x8) / Spade Lug, 14.0 ft	6.25	6.13	5.88	5.50	4.69

RoHS Flat Silver Satin Modular Cable - Plug to Plug, Straight-thru Wiring

Silver satin flat modular cords with two modular plugs. Wired straight-thru (1-1, 2-2, 3-3...) for most low speed data applications. Choose four conductor (RJ11), six conductor (RJ12) or eight conductor (RJ45).

TDC301	Flat Modular Cable, RJ11 (6x4) / RJ11 (6x4), 1.0 ft	1.75	1.72	1.65	1.54	1.31
TDC302	Flat Modular Cable, RJ11 (6x4) / RJ11 (6x4), 2.0 ft	1.95	1.91	1.83	1.72	1.46
TDC303	Flat Modular Cable, RJ11 (6x4) / RJ11 (6x4), 3.0 ft	2.00	1.96	1.88	1.76	1.50
TDC305	Flat Modular Cable, RJ11 (6x4) / RJ11 (6x4), 5.0 ft	2.15	2.11	2.02	1.89	1.61
TDC307	Flat Modular Cable, RJ11 (6x4) / RJ11 (6x4), 7.0 ft	2.25	2.21	2.11	1.98	1.69
TDC314	Flat Modular Cable, RJ11 (6x4) / RJ11 (6x4), 14.0 ft	3.25	3.19	3.06	2.86	2.44
TDC325	Flat Modular Cable, RJ11 (6x4) / RJ11 (6x4), 25.0 ft	4.75	4.66	4.47	4.18	3.56
TDC057-2	Flat Modular Cable, RJ12 (6x6) / RJ12 (6x6), 2.0 ft	2.75	2.70	2.59	2.42	2.06
TDC057-7	Flat Modular Cable, RJ12 (6x6) / RJ12 (6x6), 7.0 ft	3.75	3.68	3.53	3.30	2.81
TDC057-14	Flat Modular Cable, RJ12 (6x6) / RJ12 (6x6), 14.0 ft	5.00	4.90	4.70	4.40	3.75
TDC057-25	Flat Modular Cable, RJ12 (6x6) / RJ12 (6x6), 25.0 ft	7.00	6.86	6.58	6.16	5.25
TDC057-50	Flat Modular Cable, RJ12 (6x6) / RJ12 (6x6), 50.0 ft	11.50	11.27	10.81	10.12	8.63
TDC053-2	Flat Modular Cable, RJ45 (8x8) / RJ45 (8x8), 2.0 ft	3.00	2.94	2.82	2.64	2.25
TDC053-7	Flat Modular Cable, RJ45 (8x8) / RJ45 (8x8), 7.0 ft	4.50	4.41	4.23	3.96	3.38
TDC053-14	Flat Modular Cable, RJ45 (8x8) / RJ45 (8x8), 14.0 ft	6.25	6.13	5.88	5.50	4.69
TDC053-25	Flat Modular Cable, RJ45 (8x8) / RJ45 (8x8), 25.0 ft	9.00	8.82	8.46	7.92	6.75
TDC053-50	Flat Modular Cable, RJ45 (8x8) / RJ45 (8x8), 50.0 ft	15.25	14.95	14.34	13.42	11.44
TDC053-100	Flat Modular Cable, RJ45 (8x8) / RJ45 (8x8), 100.0 ft	28.00	27.44	26.32	24.64	21.00

RoHS Flat Silver Satin Modular Cable - Plug to Plug, Crossed Wiring

Silver satin flat modular cords with two modular plugs. Crossed wires for many voice applications. Choose four conductor (RJ11), six conductor (RJ12) or eight conductor (RJ45).

TDC207	Flat Modular Cable, RJ11 (6x4) / RJ11 (6x4), 7.0 ft	2.25	2.21	2.11	1.98	1.69
TDC214	Flat Modular Cable, RJ11 (6x4) / RJ11 (6x4), 14.0 ft	3.25	3.19	3.06	2.86	2.44
TDC225	Flat Modular Cable, RJ11 (6x4) / RJ11 (6x4), 25.0 ft	4.50	4.41	4.23	3.96	3.38
TDC027-2	Flat Modular Cable, RJ12 (6x6) / RJ12 (6x6), 2.0 ft	2.75	2.70	2.59	2.42	2.06
TDC027-7	Flat Modular Cable, RJ12 (6x6) / RJ12 (6x6), 7.0 ft	3.75	3.68	3.53	3.30	2.81
TDC027-14	Flat Modular Cable, RJ12 (6x6) / RJ12 (6x6), 14.0 ft	5.00	4.90	4.70	4.40	3.75
TDC027-25	Flat Modular Cable, RJ12 (6x6) / RJ12 (6x6), 25.0 ft	7.00	6.86	6.58	6.16	5.25
TDC003-2	Flat Modular Cable, RJ45 (8x8) / RJ45 (8x8), 2.0 ft	3.25	3.19	3.06	2.86	2.44
TDC003-7	Flat Modular Cable, RJ45 (8x8) / RJ45 (8x8), 7.0 ft	4.50	4.41	4.23	3.96	3.38
TDC003-14	Flat Modular Cable, RJ45 (8x8) / RJ45 (8x8), 14.0 ft	6.25	6.13	5.88	5.50	4.69
TDC003-25	Flat Modular Cable, RJ45 (8x8) / RJ45 (8x8), 25.0 ft	9.00	8.82	8.46	7.92	6.75

Flat Silver Satin Modular Cable - DEC Plug to DEC Plug, Crossed Wiring

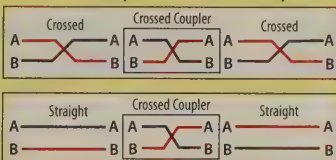
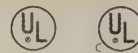
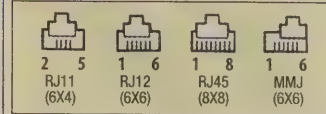
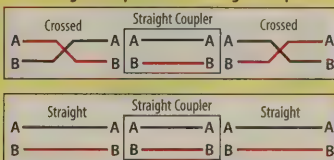
Special silver satin flat modular cords for DEC applications. Assemblies utilize 6 position modified modular plugs with offset connectors. Cross wired.

TDC067-7D	Flat Modular Cable, RJ12 (6x6MMJ) / RJ12 (6x6MMJ), 7.0 ft	4.25	4.17	3.99	3.74	3.19
TDC067-14D	Flat Modular Cable, RJ12 (6x6MMJ) / RJ12 (6x6MMJ), 14.0 ft	5.75	5.64	5.40	5.06	4.31

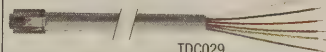
Tip What is the difference between straight-thru and cross pinning?

Straight-thru means each contact is straight pinned to its respective contact (1-1, 2-2, 3-3, etc.). Crossed pinning means contacts are pinned through to the opposite contact. Example: on an 8 position RJ45: 1-8, 2-7, 3-6, etc.

When using a coupler between two patch cords it is important to choose the correct type. As the diagrams illustrate, if the desired pinning from end to end is crossed then the coupler and cables must be crossed. For straight pinning, all cables and couplers must be straight-thru type.

Crossed Couplers with Crossed Output**Straight Couplers with Straight Output**

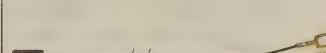
TDC019



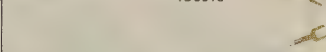
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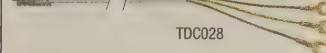
TDC005



TDC018



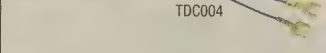
TDC028



TDC004



TDC301 STRAIGHT-THRU



TDC057 STRAIGHT-THRU



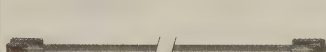
TDC053 STRAIGHT-THRU



TDC207 CROSSED



TDC027 CROSSED



TDC003 CROSSED

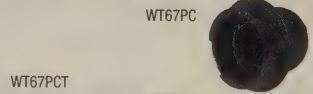
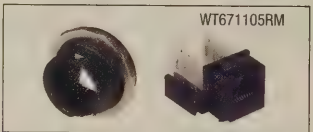
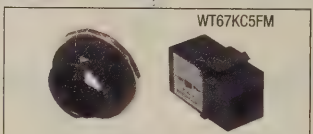


TDC067 CROSSED

Bulk Flat Cable can be found on **page 49**.

For more useful information go to....
www.L-com.com/Resources

L-com Global Connectivity



Item #	Description	1-9	10-24	25-99	100-249	250-499
✓RoHS Ruggedized IP67 Rated RJ45 Ethernet Plug Kit						
Installing Ethernet in harsh environments has never been easier. This IP67 rated plug housing is available for use with either shielded or non-shielded connections. A gasket seal keeps out unwanted contaminants and moisture. The optional flexible strain relief controls the bend radius of the cable. Call today to discuss your application with us!						
WT6788D	Non-Shielded Dome Style	19.95	19.15	18.35	17.56	16.76
WT6788F	Non-Shielded Flex Style	19.95	19.15	18.35	17.56	16.76
WT6788DS	Shielded Dome Style	22.95	22.03	21.11	20.20	19.28
WT6788FS	Shielded Flex Style	22.95	22.03	21.11	20.20	19.28
TSP4088C5	Replacement RJ45 Non-Shielded Plugs, Pkg/50	29.95	27.55	25.16	22.76	CALL
TSP4088C5S	Replacement RJ45 Shielded Plugs, Pkg/50	49.95	45.95	41.96	37.96	CALL

✓RoHS Ruggedized IP67 Rated Keystone Flange Adapter Kits

Pass your Ethernet connections through a panel while still maintaining an IP67 rated seal. These receptacle kits consist of an IP67 rated flange adapter and industry standard keystone jacks and couplers. Don't see the combination you need? Call today and we'll help you find the right connection system for your application.

WT6700FM	Front Mount Empty	17.95	17.23	16.51	15.80	15.08
WT6700RM	Rear Mount Empty	17.95	17.23	16.51	15.80	15.08
WT67KC5FM	Front Mount C5E Coupler	24.95	23.95	22.95	21.96	20.96
WT67KC5RM	Rear Mount C5E Coupler	24.95	23.95	22.95	21.96	20.96
WT671105FM	Front Mount C5E IDC 110 Jack	19.95	19.15	18.35	17.56	16.76
WT671105RM	Rear Mount C5E IDC 110 Jack	19.95	19.15	18.35	17.56	16.76

✓RoHS Protective Covers for WT67 Series Plugs and Jacks

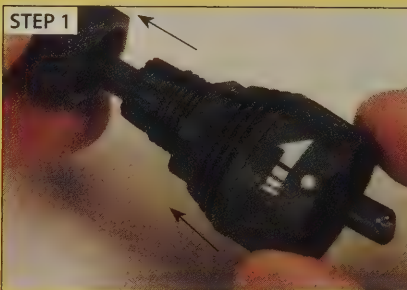
Maintain the IP67 rating for all open plugs and jacks with these covers. These caps are specifically designed to fit the WT67 series jacks and plugs. When a cable is connected, just attach a cap over the exposed connection and the seal is maintained.

WT67RC	IP67 Jack Cover for Female Receptacles	5.95	5.71	5.47	5.24	5.00
WT67RCT	IP67 Jack Cover for Female Receptacles with Tether	10.95	10.51	10.07	9.64	9.20
WT67PC	IP67 Jack Cover for Male Plug Kits	6.95	6.67	6.39	6.12	5.84
WT67PCT	IP67 Jack Cover for Male Plug Kits with Tether	8.95	8.59	8.23	7.88	7.52

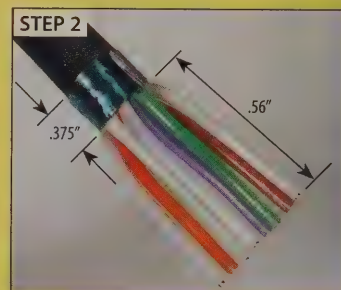


Tip

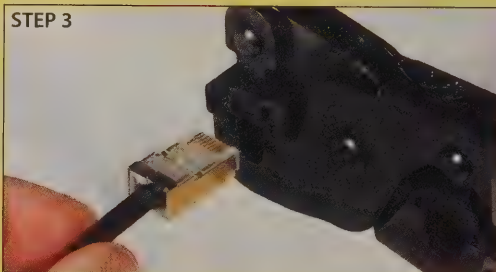
Easily attach a field installable plug



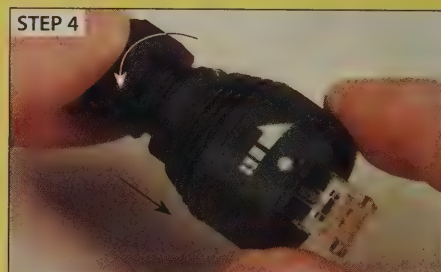
Slide compression nut, coupling and plug housing onto cable.



Strip & prepare conductors for crimping. Trim to .56"

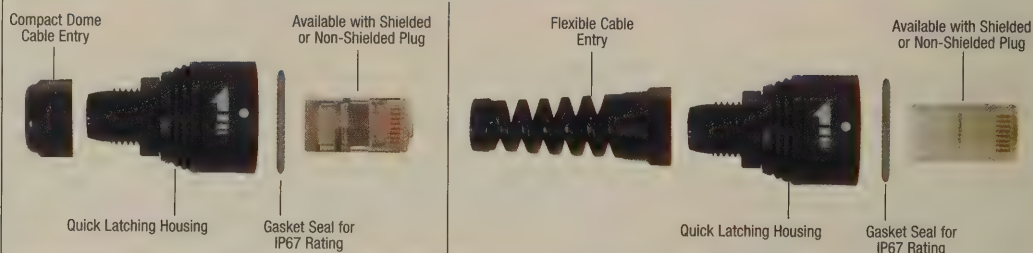


Install plug and crimp.



Slide crimped connector into place and tighten compression nut.

Industrial Category 5E Field Installable Connectors (Exploded View)



Item #	Description	List Price
RoHS NBP141004-100	Weatherproof Enclosure With 120 VAC Power Module is Ideal for Wireless Access Points Remote wireless equipment such as access points and routers are more vulnerable to tampering and theft. This can cripple critical communications. A low cost solution for protecting and securing your wireless equipment is the NBP141004-100. This rugged, NEMA 3R, weatherproof enclosure is ideal for both indoor and outdoor applications. The compact size of this enclosure (14" x 10" x 4") makes it ideal for locations with limited space requirements such as equipment closets or mobile applications. The 10.5" x 9.5" x 4" (266 x 241 x 101 mm) compartment features a removable power module with two 120 VAC outlets. This power module has provisions to install two additional outlets. Cable access to the inside of the enclosure is via three rubber cable glands located on the bottom.	44.99

NBP141004-100 120 VAC NEMA Rated Weatherproof Enclosure with 120 VAC Power Module

RoHS Category 5E Outdoor Cables with Weather Tight Grommet

Protect Ethernet cable runs outside with L-com's outdoor Category 5E rated cable. The gel-filled jacket provides moisture protection when used in an outdoor environment. The built in feed-thru grommet allows you to pass this cable through an enclosure while maintaining a watertight seal. With the UV protected jacket, outdoor cable runs are protected from damage caused by sunlight exposure. The cable is EIA568B color-coded for compatibility with standard installations and features solid conductors for termination into standard IDC connectors. Custom lengths are available; contact us today with your project requirements.

TRD855WTG-5	Category 5E Outdoor Patch Cable, RJ45 / RJ45, Weather Tight Grommet, 5.0 ft	41.75
TRD855WTG-10	Category 5E Outdoor Patch Cable, RJ45 / RJ45, Weather Tight Grommet, 10.0 ft	44.75
TRD855WTG-25	Category 5E Outdoor Patch Cable, RJ45 / RJ45, Weather Tight Grommet, 25.0 ft	53.75
TRD855WTG-50	Category 5E Outdoor Patch Cable, RJ45 / RJ45, Weather Tight Grommet, 50.0 ft	68.75
TRD855WTG-100	Category 5E Outdoor Patch Cable, RJ45 / RJ45, Weather Tight Grommet, 100.0 ft	98.75

LC to LC Duplex Multimode Fiber Optic Cables with Grommets, 62.5/125 with OFNR Jacket

L-com's 62.5/125 duplex multimode fiber optic cables are constructed of the highest quality components and are covered by a one-year warranty. These outdoor IP67 rated fiber optic patch cables feature liquid tight grommets which can be used to connect the cables to enclosures that house communications equipment. The grommets are sized for 3/4" knockouts and feature locking nuts. By utilizing L-com's fiber optic patch cables, critical network uptime is assured. Custom lengths, connector combinations and polishes are available. Contact us today for details.

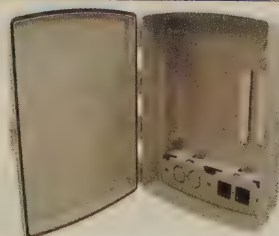
FODLCG-01	62.5/125, Multimode Fiber Cable with Grommets, Dual LC / Dual LC, 1.0m	32.50
FODLCG-02	62.5/125, Multimode Fiber Cable with Grommets, Dual LC / Dual LC, 2.0m	35.50
FODLCG-03	62.5/125, Multimode Fiber Cable with Grommets, Dual LC / Dual LC, 3.0m	38.50
FODLCG-05	62.5/125, Multimode Fiber Cable with Grommets, Dual LC / Dual LC, 5.0m	44.50
FODLCG-10	62.5/125, Multimode Fiber Cable with Grommets, Dual LC / Dual LC, 10.0m	59.50

Item #	Description	1-9	10-24	25-99	100-249	250-499
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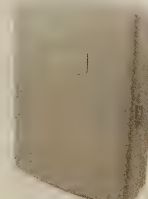
RoHS Liquid Tight Straight Cable Grommets

These rugged IP67 rated cable grommets are perfect for use with enclosures and panels where the cables entry point must be sealed from moisture and dust. Each grommet includes a dome nut and main body housing. A locking nut is sold separately and can be used to secure the grommet to a 3/4" knockout. This grommet is sized for cable OD's ranging from .11 to .27 inches. Contact us today for more sizes and fitting options.

CG-PG11	Cable Grommet 3/4" Knockout	2.75	2.70	2.64	2.59	2.53
LN-PG11	Locking Nut for 3/4" Grommet	0.59	0.58	0.57	0.55	0.54



NBP141004-100
(open)



NBP141004-100
(closed)



TRD855WTG



FODLCG



CG-PG11



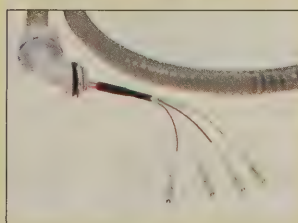
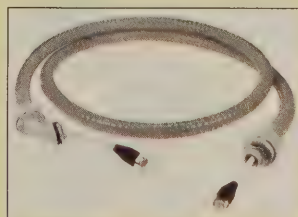
LN-PG11

NEMA/IEC

NEMA, (National Electrical Manufacturers Association) and the IEC (International Electrotechnical Commission) are two standards groups, which have devised two rating systems for enclosures, which define the enclosures resistance to dust, moisture, water immersion and ice. The IEC's rating is referred to as the IP or Ingress Protection rating. The table below outlines NEMA and IEC IP enclosure ratings

NEMA enclosure type no.	NEMA definition	IEC enclosure class
1	General-purpose. Protects against dust, light and indirect splashing but is not dust-tight; primarily prevents contact with live parts; used indoors and under normal atmospheric conditions.	IP10
2	Drip-tight. Similar to Type 1 but with addition of drip shields; used where condensation may be severe (as in cooling rooms and laundries).	IP11
3 and 3S	Weather-resistant. Protects against weather hazards such as rain and sleet; used outdoors on ship docks, in construction work and in tunnels and subways.	IP54
3R	Intended for outdoor use. Provides a degree of protection against falling rain and ice formation. Meets rod entry, rain, external icing and rust-resistance design tests.	IP14
4 and 4X	Watertight (weatherproof). Must exclude at least 65 GPM of water from 1-in. nozzle delivered from a distance not less than 10 ft for 5 min. Used outdoors on ship docks, in dairies and in breweries.	IP56
5	Dust-tight. Provided with gaskets or equivalent to exclude dust; used in steel mills and cement plants.	IP52
6 and 6P	Submersible. Design depends on specified conditions of pressure and time; submersible in water; used in quarries, mines and manholes.	IP67
7	Hazardous. For indoor use in Class I, Groups A, B, C and D environments as defined in the NEC.	—
8	Hazardous. For indoor and outdoor use in locations classified as Class I, Groups A, B, C and D as defined in the NEC.	—
9	Hazardous. For indoor and outdoor use in locations classified as Class II, Groups E, F or G as defined in the NEC.	—
10	MSHA. Meets the requirements of the Mine Safety and Health Administration, 30 CFR Part 18 (1978).	—
11	General-purpose. Protects against the corrosive effects of liquids and gases. Meets drip and corrosion-resistance tests.	—
12 and 12K	General-purpose. Intended for indoor use, provides some protection against dust, falling dirt and dripping noncorrosive liquids. Meets drip, dust and rust resistance tests.	IP52
13	General-purpose. Primarily used to provide protection against dust, spraying of water, oil and noncorrosive coolants. Meets oil exclusion and rust resistance design tests.	IP54

Contact us today with your custom conduit assembly requirements. We offer many metal and plastic conduit and fitting sizes.



Custom design and manufacturing capabilities

Our product design process takes you from concept to production. L-com.com/Custom



Item # Description

Color 1-9 10-24 25-99 100-249 250-499

L-com's Tool-less Jack Series

For the best performance with a unique offset IDC connection that maintains conductor pairs up until the termination point, L-com's tool-less jack series is the answer. With a positive locking compression cap, users can be sure that conductors are securely locked into the jack. This series requires no special tools for installation. The compression cap acts like a punch tool by pressing the conductors into place. These jacks also feature EIA568A/B dual color-coding for universal usage in all network installations. Each jack is intelligently designed into a compact and efficient body which minimizes cross talk while easing installation.

**Tool-less termination speeds installations****See The Video**www.L-com.com/Videos/A01**RoHS Category 5E - Tool-less Keystone Jacks - 90 Degree Style**

MJSTLC5E-WT	Category 5E Tool-less Keystone Jack, RJ45 (8x8) 568A/B	White	4.95	4.46	3.96	3.47	2.97
MJSTLC5E-IV	Category 5E Tool-less Keystone Jack, RJ45 (8x8) 568A/B	Ivory	4.95	4.46	3.96	3.47	2.97
MJSTLC5E-BLK	Category 5E Tool-less Keystone Jack, RJ45 (8x8) 568A/B	Black	4.95	4.46	3.96	3.47	2.97

RoHS Category 6 - Tool-less Keystone Jacks - 90 Degree Style

MJSTLC6-WT	Category 6 Tool-less Keystone Jack, RJ45 (8x8) 568A/B	White	5.95	5.36	4.76	4.17	3.57
MJSTLC6-IV	Category 6 Tool-less Keystone Jack, RJ45 (8x8) 568A/B	Ivory	5.95	5.36	4.76	4.17	3.57
MJSTLC6-BLK	Category 6 Tool-less Keystone Jack, RJ45 (8x8) 568A/B	Black	5.95	5.36	4.76	4.17	3.57

RoHS Category 5E - 110 Keystone Jacks - 90 Degree Style

L-com's keystone Category 5E 110 punch down style connectors offer users simple installation via the popular 110 punch down style connecting system. Each jack is color coded for the EIA/TIA568 A and B standards.

MJS110C5E-WT	Category 5E Keystone Jack, 110 / RJ45 (8x8) 568A/B	White	2.95	2.66	2.36	2.07	1.77
MJS110C5E-IV	Category 5E Keystone Jack, 110 / RJ45 (8x8) 568A/B	Ivory	2.95	2.66	2.36	2.07	1.77
MJS110C5E-BLK	Category 5E Keystone Jack, 110 / RJ45 (8x8) 568A/B	Black	2.95	2.66	2.36	2.07	1.77
MJS110C5E-YL	Category 5E Keystone Jack, 110 / RJ45 (8x8) 568A/B	Yellow	2.95	2.66	2.36	2.07	1.77
MJS110C5E-BL	Category 5E Keystone Jack, 110 / RJ45 (8x8) 568A/B	Blue	2.95	2.66	2.36	2.07	1.77

RoHS Category 6 - 110 Keystone Jacks - 90 Degree Style

L-com's keystone Category 6 110 punch down style connectors offer users simple installation via the popular 110 punch down style connecting system. Each jack is color coded for the EIA/TIA568 A and B standards.

MJS110C6-WT	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	White	3.95	3.56	3.16	2.77	2.37
MJS110C6-IV	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Ivory	3.95	3.56	3.16	2.77	2.37
MJS110C6-BLK	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Black	3.95	3.56	3.16	2.77	2.37
MJS110C6-YL	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Yellow	3.95	3.56	3.16	2.77	2.37
MJS110C6-BL	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Blue	3.95	3.56	3.16	2.77	2.37

RoHS Shielded Category 5E and 6 Jacks

L-com's shielded modular jacks offer users a complete solution to EMI/RFI problems. By utilizing fully shielded jacks and connecting hardware, users can reduce the effects of interference on the network data transmissions. All jacks feature 110-style punch down connections for fast and easy termination.

MJS110C5E-S	Shielded Category 5E Keystone Jack, 110 / RJ45 (8x8) 568A/B		4.95	4.46	3.96	3.47	2.97
MJS110C6-S	Shielded Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B		5.95	5.36	4.76	4.17	3.57

RoHS Category 5E and Category 6 Keystone Jack Kits - 110 / RJ45 EIA568A/B

These unique panel mount RJ45 connector kits allow keystone style 110 IDC connectors to be mounted into panels thicker than 0.062". Packaged as a kit, including the flange, two 4-40 screws, and one RJ45 Cat 5E or Cat 6 jack.

ECF110C5E-BLK	Category 5E Keystone Jack, 110 / RJ45 (8x8) 568A/B	Black	5.95	5.83	5.59	5.24	4.46
ECF110C5E-BL	Category 5E Keystone Jack, 110 / RJ45 (8x8) 568A/B	Blue	5.95	5.83	5.59	5.24	4.46
ECF110C5E-IV	Category 5E Keystone Jack, 110 / RJ45 (8x8) 568A/B	Ivory	5.95	5.83	5.59	5.24	4.46
ECF110C5E-WT	Category 5E Keystone Jack, 110 / RJ45 (8x8) 568A/B	White	5.95	5.83	5.59	5.24	4.46
ECF110C5E-YL	Category 5E Keystone Jack, 110 / RJ45 (8x8) 568A/B	Yellow	5.95	5.83	5.59	5.24	4.46
ECF110C5E-S	Shielded Cat. 5E Keystone Jack, 110 / RJ45 (8x8) 568A/B	Silver	6.95	6.81	6.53	6.12	5.21
ECF110C6-BLK	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Black	7.95	7.79	7.47	7.00	5.96
ECF110C6-BL	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Blue	7.95	7.79	7.47	7.00	5.96
ECF110C6-IV	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Ivory	7.95	7.79	7.47	7.00	5.96
ECF110C6-WT	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	White	7.95	7.79	7.47	7.00	5.96
ECF110C6-YL	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Yellow	7.95	7.79	7.47	7.00	5.96
ECF110C6-S	Shielded Cat. 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Silver	8.95	8.77	8.41	7.88	6.71

RoHS Category 5E and Category 6 Tool-less Keystone Jack Kits - RJ45 EIA568A/B

The ECFTL series of panel mount RJ45 connector kits allow L-com's tool-less RJ45 keystone connectors to mount into panels thicker than 0.062". Packaged as a kit, including the flange, two 4-40 screws, and one RJ45 Cat 5E or Cat 6 jack.

ECFTLC5E-BLK	Category 5E Keystone Jack, 110 / RJ45 (8x8) 568A/B	Black	8.95	8.77	8.41	7.88	6.71
ECFTLC5E-IV	Category 5E Keystone Jack, 110 / RJ45 (8x8) 568A/B	Ivory	8.95	8.77	8.41	7.88	6.71
ECFTLC5E-WT	Category 5E Keystone Jack, 110 / RJ45 (8x8) 568A/B	White	8.95	8.77	8.41	7.88	6.71
ECFTLC6-BLK	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Black	9.95	9.75	9.35	8.76	7.46
ECFTLC6-IV	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Ivory	9.95	9.75	9.35	8.76	7.46
ECFTLC6-WT	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	White	9.95	9.75	9.35	8.76	7.46

RoHS Category 3 RJ12 110 Keystone Jacks - Telephone and Data Applications

L-com's keystone Category 3 110 punch style connectors offer an economical choice with the popular 110-punch style connection system. Each jack is color coded for both the EIA and USOC standards for compatibility with any installation. Jacks are available in two colors to fit individual installations. Large volume quotations are available for installers and contractors looking to save money. Contact us today.

MJS110RJ12-IV	Category 3 RJ12 IDC Keystone Jack	Ivory	1.95	1.76	1.56	1.37	1.17
MJS110RJ12-WT	Category 3 RJ12 IDC Keystone Jack	White	1.95	1.76	1.56	1.37	1.17



Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
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Premium Category 6 RJ45 - 110 Keystone Jack - 90 Degree Style

Hellermann-Tyton's Gigaband™ Category 6 modular jack is designed to "future proof" installations. Its patented design uses innovative crosstalk cancellation technology. The performance of the Gigaband system exceeds Category 6 and Class E requirements. These jacks will easily support emerging applications such as Gigabit Ethernet and 622 Mbps ATM. The 90° design has the 110 connectors at right angles to the modular plug. Comes in colors of Black, Blue, Brown, Office White, Green, Gray, Ivory, Orange, Red, Violet, White and Yellow.

Category 6 Keystone Jack, 110 / RJ45 (8x8), EIA568A/B

UJ110C6-BLK	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Black	7.95	7.63	7.31	7.00	CALL
UJ110C6-BLU	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Blue	7.95	7.63	7.31	7.00	CALL
UJ110C6-BRN	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Brown	7.95	7.63	7.31	7.00	CALL
UJ110C6-FW	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Office White	7.95	7.63	7.31	7.00	CALL
UJ110C6-GRN	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Green	7.95	7.63	7.31	7.00	CALL
UJ110C6-GRY	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Gray	7.95	7.63	7.31	7.00	CALL
UJ110C6-I	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Ivory	7.95	7.63	7.31	7.00	CALL
UJ110C6-ORN	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Orange	7.95	7.63	7.31	7.00	CALL
UJ110C6-RED	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Red	7.95	7.63	7.31	7.00	CALL
UJ110C6-VIO	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Violet	7.95	7.63	7.31	7.00	CALL
UJ110C6-W	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	White	7.95	7.63	7.31	7.00	CALL
UJ110C6-YEL	Category 6 Keystone Jack, 110 / RJ45 (8x8) 568A/B	Yellow	7.95	7.63	7.31	7.00	CALL

Premium Category 5E RJ45 - 110 Keystone Jack - 90 Degree Style

Hellermann-Tyton Megaband™ Category 5E flush modular jacks are designed to meet the needs of end users and installers. These jacks will support Gigabit Ethernet and 622 Mbps ATM applications.

UJ110C5E-BLK	Category 5E Keystone Jack, 110 / RJ45 (8x8) EIA568A/B	Black	5.95	5.71	5.47	5.24	CALL
UJ110C5E-BLU	Category 5E Keystone Jack, 110 / RJ45 (8x8) EIA568A/B	Blue	5.95	5.71	5.47	5.24	CALL
UJ110C5E-RED	Category 5E Keystone Jack, 110 / RJ45 (8x8) EIA568A/B	Red	5.95	5.71	5.47	5.24	CALL
UJ110C5E-W	Category 5E Keystone Jack, 110 / RJ45 (8x8) EIA568A/B	White	5.95	5.71	5.47	5.24	CALL
UJ110C5E-GRY	Category 5E Keystone Jack, 110 / RJ45 (8x8) EIA568A/B	Gray	5.95	5.71	5.47	5.24	CALL
UJ110C5E-I	Category 5E Keystone Jack, 110 / RJ45 (8x8) EIA568A/B	Ivory	5.95	5.71	5.47	5.24	CALL

Category 5E RJ45 - 110 Keystone Jack - Traditional 180 Degree Style

The traditional 180° design has the 110 connectors parallel to the modular plug entry. This jack comes in Ivory and is EIA568A/B dual color coded.

RJ110C5B-I	Category 5E Keystone Jack, 110 / RJ45 (8x8) EIA568A/B	Ivory	5.95	5.83	5.71	5.59	5.47
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RoHS Category 5E RJ45 - 110 Shielded Keystone Jack - 180 Degree Style

This jack is similar to the RJ110C5 series except it is fully shielded for areas where noise is prevalent. Accepts EIA568A or B wiring.

RJ110C5-S	Cat. 5E Shld. Keystone Jack, 110 / RJ45 (8x8) EIA568A/B	Silver	8.95	8.77	8.59	8.41	8.23
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RoHS 10 Position Category 5 and USOC - 110 IDC Keystone Jacks - Traditional 180 Degree Style

These 10 position 10 contact keystone style jacks are an ideal solution in applications where additional contacts are required. The traditional 180° design has the 110 connectors parallel to the modular plug entry. Category 5 version is dual color coded, compatible with EIA568A and B wiring with position 1 and 10 populated.

EC1107B-USOC	Keystone IDC - 10P10C Jack, USOC	Black	6.95	6.67	6.39	6.12	CALL
EC1107B-10C5	Keystone IDC - 10P10C Jack, Cat. 5-568A/B	Black	6.95	6.67	6.39	6.12	CALL

RoHS Miscellaneous Keystone Jacks - Coaxial, Fiber and Audio/Video Couplers

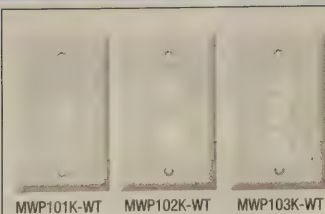
Add more than just data and telephone connections to workstation outlets. L-com features audio, video, fiber and RF adapters designed to fit our wall plate systems.

MJSCPF-WT	Keystone Coaxial Type F Coupler Insert	White	1.45	1.31	1.16	1.01	0.87
MJSCPRCA-WT	Keystone RCA Coupler Insert	White	2.45	2.21	1.96	1.72	1.47
MJSCPBNC-WT	Keystone BNC Coupler Insert	White	2.45	2.21	1.96	1.72	1.47
MJSCPSC-WT	Keystone Fiber SC Coupler Insert	White	5.95	5.36	4.76	4.17	3.57
MJSCPST-WT	Keystone Fiber ST Coupler Insert	White	5.95	5.36	4.76	4.17	3.57
MJSCPBK-WT	Keystone Blank Insert	White	0.35	0.32	0.28	0.24	0.21
MJSCPF-IV	Keystone Coaxial Type F Coupler Insert	Ivory	1.45	1.31	1.16	1.01	0.87
MJSCPRCA-IV	Keystone RCA Coupler Insert	Ivory	2.45	2.21	1.96	1.72	1.47
MJSCPBNC-IV	Keystone BNC Coupler Insert	Ivory	2.45	2.21	1.96	1.72	1.47
MJSCPSC-IV	Keystone Fiber SC Coupler Insert	Ivory	5.95	5.36	4.76	4.17	3.57
MJSCPST-IV	Keystone Fiber ST Coupler Insert	Ivory	5.95	5.36	4.76	4.17	3.57
MJSCPBK-IV	Keystone Blank Insert	Ivory	0.35	0.32	0.28	0.24	0.21

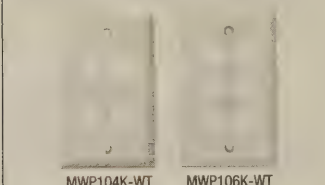


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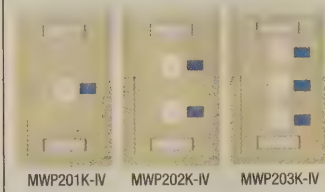
L-com® Global Connectivity



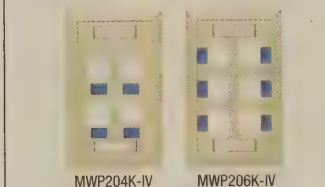
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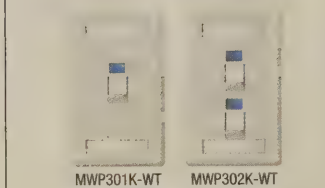
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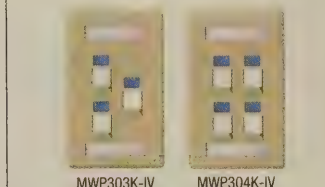
MWP201K-IV MWP202K-IV MWP203K-IV



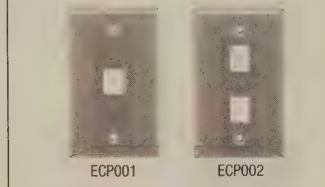
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MWP301K-WT MWP302K-WT



MWP303K-IV MWP304K-IV



ECP001 ECP002



6000687-L 6000693-L

Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
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✓RoHS Flush Mount Wall Plates that Accept Keystone Jacks

The flush mount wall plate series offers a choice of keystone port options for users to configure each workstation outlet for individual needs. These wall plates come in a choice of White or Ivory and can accept up to six keystone inserts.

MWP101K-WT	Flush Wall Plate for 1 Keystone Jack	White	1.59	1.43	1.27	1.11	0.95
MWP102K-WT	Flush Wall Plate for 2 Keystone Jacks	White	1.59	1.43	1.27	1.11	0.95
MWP103K-WT	Flush Wall Plate for 3 Keystone Jacks	White	1.59	1.43	1.27	1.11	0.95
MWP104K-WT	Flush Wall Plate for 4 Keystone Jacks	White	1.59	1.43	1.27	1.11	0.95
MWP106K-WT	Flush Wall Plate for 6 Keystone Jacks	White	1.59	1.43	1.27	1.11	0.95
MWP101K-IV	Flush Wall Plate for 1 Keystone Jack	Ivory	1.59	1.43	1.27	1.11	0.95
MWP102K-IV	Flush Wall Plate for 2 Keystone Jacks	Ivory	1.59	1.43	1.27	1.11	0.95
MWP103K-IV	Flush Wall Plate for 3 Keystone Jacks	Ivory	1.59	1.43	1.27	1.11	0.95
MWP104K-IV	Flush Wall Plate for 4 Keystone Jacks	Ivory	1.59	1.43	1.27	1.11	0.95
MWP106K-IV	Flush Wall Plate for 6 Keystone Jacks	Ivory	1.59	1.43	1.27	1.11	0.95

✓RoHS Flush Mount Keystone Wall Plates with Port Identifying Icons

The flush mount wall plate series with port identifying icons offers a choice of keystone port options for users to configure each workstation outlet for individual needs. These wall plates come in a choice of White or Ivory and can accept up to six keystone inserts. Port identifying icons can be used to uniquely mark each port type for phone, data or other options.

MWP201K-WT	Flush Wall Plate for 1 Keystone Jack with Port Icons	White	1.95	1.76	1.56	1.37	1.17
MWP202K-WT	Flush Wall Plate for 2 Keystone Jacks with Port Icons	White	1.95	1.76	1.56	1.37	1.17
MWP203K-WT	Flush Wall Plate for 3 Keystone Jacks with Port Icons	White	1.95	1.76	1.56	1.37	1.17
MWP204K-WT	Flush Wall Plate for 4 Keystone Jacks with Port Icons	White	1.95	1.76	1.56	1.37	1.17
MWP206K-WT	Flush Wall Plate for 6 Keystone Jacks with Port Icons	White	1.95	1.76	1.56	1.37	1.17
MWP201K-IV	Flush Wall Plate for 1 Keystone Jack with Port Icons	Ivory	1.95	1.76	1.56	1.37	1.17
MWP202K-IV	Flush Wall Plate for 2 Keystone Jacks with Port Icons	Ivory	1.95	1.76	1.56	1.37	1.17
MWP203K-IV	Flush Wall Plate for 3 Keystone Jacks with Port Icons	Ivory	1.95	1.76	1.56	1.37	1.17
MWP204K-IV	Flush Wall Plate for 4 Keystone Jacks with Port Icons	Ivory	1.95	1.76	1.56	1.37	1.17
MWP206K-IV	Flush Wall Plate for 6 Keystone Jacks with Port Icons	Ivory	1.95	1.76	1.56	1.37	1.17

✓RoHS Angled Entry Wall Plates that Accept Keystone Jacks

The 45° Angled Entry wall plate series offers a choice of keystone port options for users to configure each workstation outlet for individual needs. These wall plates come in a choice of White or Ivory and can accept up to four keystone inserts. Port identifying icons can be used to uniquely mark each port type for phone, data or other options.

MWP301K-WT	45 Degree Entry Wall Plate for 1 Keystone Jack	White	1.95	1.76	1.56	1.37	1.17
MWP302K-WT	45 Degree Entry Wall Plate for 2 Keystone Jacks	White	1.95	1.76	1.56	1.37	1.17
MWP303K-WT	45 Degree Entry Wall Plate for 3 Keystone Jacks	White	1.95	1.76	1.56	1.37	1.17
MWP304K-WT	45 Degree Entry Wall Plate for 4 Keystone Jacks	White	1.95	1.76	1.56	1.37	1.17
MWP301K-IV	45 Degree Entry Wall Plate for 1 Keystone Jack	Ivory	1.95	1.76	1.56	1.37	1.17
MWP302K-IV	45 Degree Entry Wall Plate for 2 Keystone Jacks	Ivory	1.95	1.76	1.56	1.37	1.17
MWP303K-IV	45 Degree Entry Wall Plate for 3 Keystone Jacks	Ivory	1.95	1.76	1.56	1.37	1.17
MWP304K-IV	45 Degree Entry Wall Plate for 4 Keystone Jacks	Ivory	1.95	1.76	1.56	1.37	1.17

✓RoHS Stainless Wall Plates for Usage in High EMI/RFI Environments or Medical Applications

These stainless wall plates offer users a clean finish for information outlets in environments where traditional plastic wall plates are not suitable.

ECP001	Stainless Wall Plate for 1 Keystone Jack	Silver	1.95	1.87	1.79	1.72	1.64
ECP002	Stainless Wall Plate for 2 Keystone Jacks	Silver	1.95	1.87	1.79	1.72	1.64

✓RoHS L-com Isolator Wall Plates for 10/100 and 10/100/1000 Ethernet Networks

L-com's Ethernet Isolator wall plates are fully self-contained devices that protect valuable network equipment from damaging surges and power anomalies that commonly occur across network cabling. Operation and installation is quick and easy. Simply plug these devices in-line between the cabling behind the wall and the patch cable that normally attaches the equipment to the network. Choose from models that support 10/100 Mbps or 10/100/1000 Mbps data rates. These isolators are available in Stainless Steel or Beige High Impact ABS Plastic. Each unit is fully RoHS compliant and has been certified to meet the IEC 6060-1 Medical Device Safety Standard making them ideal for hospital and medical laboratory environments.

6000687-L	10/100/1000 Base-T Ethernet Data Isolator, Stainless	Silver	204.99	CALL	CALL	CALL	CALL
6000689-L	10/100/1000 Base-T Ethernet Data Isolator, Plastic	Ivory	199.95	CALL	CALL	CALL	CALL
6000691-L	10/100 Base-T Ethernet Data Isolator, Stainless	Silver	104.99	CALL	CALL	CALL	CALL
6000693-L	10/100 Base-T Ethernet Data Isolator, Plastic	Ivory	99.99	CALL	CALL	CALL	CALL



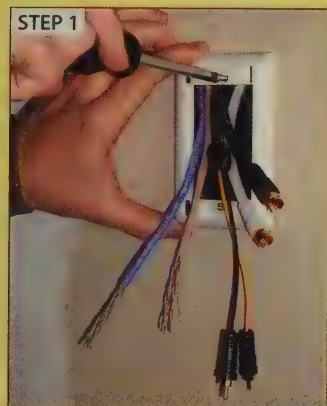
Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
RoHS Information Outlet System - Custom Build Wall Plates to Fit Individual Applications							
Custom design your own wall plate system using L-com's Information Outlet System. With all of today's connector types available including computer video, Ethernet RJ45, cable TV F-Type, and SC/ST fiber optic you can achieve a professional look without the cost of a professional installation. The Office White color goes well with any décor. Each module snaps in quickly saving time and money. L-com maintains a large inventory of all wall plate connectors for immediate shipment today. Keystone inserts support Category 3, 5E, and 6 style jacks only.							
MWP400S-WT	Modular Wall Frame - Single Gang Holds 3 Insert Plates	White	1.99	1.79	1.59	1.39	1.19
MWP48NK-WT	Insert Plate - Blank Panel	White	0.35	0.32	0.28	0.24	0.21
MWP41KS-WT	Insert Plate - One Keystone Opening	White	0.75	0.68	0.60	0.52	0.45
MWP42KS-WT	Insert Plate - Two Keystone Openings	White	0.95	0.86	0.76	0.66	0.57
MWP41HD15-WT	Insert Plate - One Video HD15 Female Coupler	White	8.95	8.23	7.52	6.80	6.09
MWP41ST-WT	Insert Plate - Simplex ST Fiber Coupler	White	8.95	8.06	7.16	6.27	5.37
MWP42ST-WT	Insert Plate - Duplex ST Fiber Coupler	White	10.95	9.86	8.76	7.66	6.57
MWP41SC-WT	Insert Plate - Simplex SC Fiber Coupler	White	8.95	8.06	7.16	6.27	5.37
MWP42SC-WT	Insert Plate - Duplex SC Fiber Coupler	White	10.95	9.86	8.76	7.66	6.57
MWP42RCA-WT	Insert Plate - Dual RCA Audio Couplers	White	4.95	4.46	3.96	3.47	2.97
MWP42F-WT	Insert Plate - Dual Type F Style Couplers	White	2.95	2.66	2.36	2.07	1.77

Installing an L-com Information Outlet System

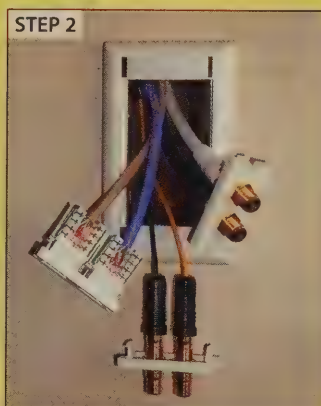


See The Video

www.L-com.com/Videos/A17



1. Pull all cables through the wall plate and attach the plate to the wall box or bracket.



2. Attach cables to each module. At this time, it's best to test cable connections for continuity.



3. Insert completed modules into wall plate and snap firmly into place.

RoHS Decora Style Wall Plate System with Keystone Ports

Combine all your cable connections into L-com's Decora style wall plates. This popular design provides a clean, modern look to cable connections in a finished room. With support for up to four keystone jacks, you can easily combine all your telephone, network, and video connections needs in one Decora plate for a professional, finished appearance. Volume discounts are available; contact us today with your project needs.

MWP500S-WT	Decora Style Single Gang Wall Plate	1.19	1.07	0.95	0.83	0.71
MWP500D-WT	Decora Style Double Gang Wall Plate	1.79	1.61	1.43	1.25	1.07
MWP501-WT	Decora Style Wall Plate Insert with 1 Keystone Port	1.49	1.34	1.19	1.04	0.89
MWP502-WT	Decora Style Wall Plate Insert with 2 Keystone Ports	1.49	1.34	1.19	1.04	0.89
MWP503-WT	Decora Style Wall Plate Insert with 3 Keystone Ports	1.49	1.34	1.19	1.04	0.89
MWP504-WT	Decora Style Wall Plate Insert with 4 Keystone Ports	1.49	1.34	1.19	1.04	0.89

Wall Plate Mounting Bracket for Class 2 Wiring

The wall plate mounting bracket is an excellent aid for electricians and cable installers to mount single gang wall plates at any convenient wallboard location. There is no need for traditional metal boxes which inhibit the installation of coaxial and data cables. Furthermore, users can make use of the complete wall cavity to hold excess cable and avoid sharp bends. These brackets have universally spaced threaded holes to accept any standard single or double gang wall plate. It's simple to install, just start by making a 2 1/8" W x 3 3/8" H (single gang) or 3 1/8" W x 3 3/8" H (double gang) rectangular hole and then tighten the built-in mounting screws. Large quantity pricing for installation contractors is available upon request.

WPMB1	Wall Plate Mounting Bracket for Class 2 Wiring, Single Gang	2.49	2.34	2.19	2.04	1.89
WPMB2	Wall Plate Mounting Bracket for Class 2 Wiring, Double Gang	2.95	2.77	2.60	2.42	2.24

RoHS Shielded Category 5E and 6 Surface Mount Boxes

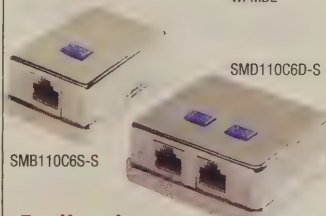
L-com's Shielded Modular Surface Mount Boxes offer users a complete solution to EMI/RFI problems. By utilizing fully shielded jacks and connecting hardware, users can reduce the effects of interference on the network data transmissions. All jacks feature 110-style punch down connections for fast and easy termination. Surface mount boxes come pre-installed with shielded jacks.

SMB110C5ES-S	Shielded Category 5E Surface Mount Jack with 1 RJ45 (8x8) 568A/B	7.95	7.16	6.36	5.57	4.77
SMB110C6S-S	Shielded Category 6 Surface Mount Jack with 1 RJ45 (8x8) 568A/B	9.95	8.96	7.96	6.96	5.97
SMD110C5ED-S	Shielded Category 5E Surface Mount Jack with 2 RJ45s (8x8) 568A/B	10.95	9.86	8.76	7.66	6.57
SMD110C6D-S	Shielded Category 6 Surface Mount Jack with 2 RJ45s (8x8) 568A/B	12.95	11.66	10.36	9.07	7.77

RoHS Surface Mount Boxes for Keystone Jacks

These one and two port surface mount boxes can accept standard keystone insert options. These boxes feature a location for icon inserts to identify each port for the connection type.

SMB01K-WT	Surface Mount Box for 1 Keystone Insert	White	1.75	1.58	1.40	1.22	1.05
SMB01K-IV	Surface Mount Box for 1 Keystone Insert	Ivory	1.75	1.58	1.40	1.22	1.05
SMB02K-WT	Surface Mount Box for 2 Keystone Inserts	White	1.95	1.76	1.56	1.37	1.17
SMB02K-IV	Surface Mount Box for 2 Keystone Inserts	Ivory	1.95	1.76	1.56	1.37	1.17

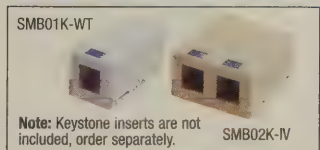


Easily wire a Surface Mount Box



See The Video

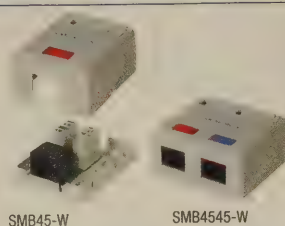
www.L-com.com/Videos/A18



How to use the WPMB mounting brackets

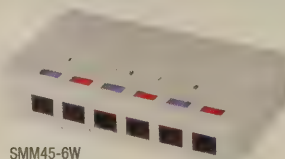
See the free video tip and more at L-com.com/Videos/A16

L-com Global Connectivity

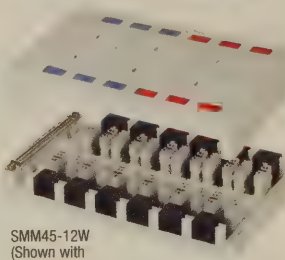
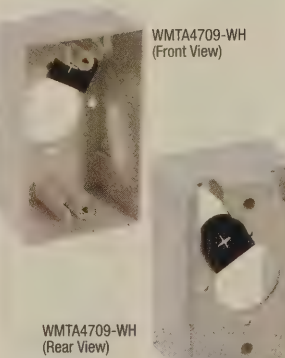


SMB45-W

SMB4545-W

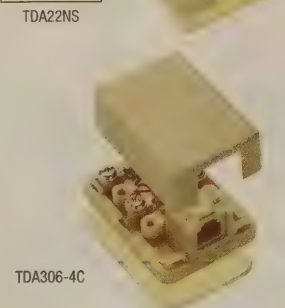


SMM45-6W


SMM45-12W
(Shown with
cover removed)

WMTA4709-WH
(Front View)

WMTA4709-WH
(Rear View)

TDA310-8C


RJ45 Keyed
TDA22NS


TDA306-4C

Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
RoHS Category 5E Surface Mount Boxes Include RJ45 or RJ12 Jacks and 110 Connectors							
One and two port surface mount boxes include RJ45 (Category 5) and/or RJ12 (Voice) jacks for easy surface mounting. These units feature colored icons, write on labels and tri-directional cable entry points. Both EIA568A and B wiring codes listed on RJ45 jacks. 50 microinches gold on modular contacts. Ivory or White and UL Listed.							
SMB12-I	Category 5E Surface Box, Single Port, RJ12 (6x6)	Ivory	6.95	6.67	6.39	6.12	5.84
SMB45-I	Category 5E Surface Box, Single Port, RJ45 (8x8)	Ivory	7.95	7.63	7.31	7.00	6.68
SMB45-W	Category 5E Surface Box, Single Port, RJ45 (8x8)	White	7.95	7.63	7.31	7.00	6.68
SMB4512-I	Category 5E Surface Box, RJ45 (8x8) / RJ12 (6x6)	Ivory	10.95	10.51	10.07	9.64	9.20
SMB4545-I	Category 5E Surface Box, RJ45 (8x8) / RJ45 (8x8)	Ivory	12.95	12.43	11.91	11.40	10.88
SMB4545-W	Category 5E Surface Box, RJ45 (8x8) / RJ45 (8x8)	White	12.95	12.43	11.91	11.40	10.88

RoHS Category 5E - 6 and 12 Port Surface Mount Box

These boxes are extremely useful when wiring up densely populated areas such as office cubicles. Each box utilizes 6 or 12 enhanced Category 5 (RJ45) jacks with 110 insulation displacement contacts. Modular contacts have 50 microinches gold meeting FCC requirements and 110 contacts are color coded for EIA568A and B wiring. Multiple cable entry knock outs accommodate different cable dimensions. Supplied with Blue and Red snap in icons, write in strips, double sided adhesive and wood screws. Color: White.

SMM45-6W	Category 5E Surface Box, 6 Port, RJ45 (8x8)	White	34.95	32.15	29.36	26.56	CALL
SMM45-12W	Category 5E Surface Box, 12 Port, RJ45 (8x8)	White	59.95	55.15	50.36	45.56	CALL

How to wire a surface mount box

Parts List:

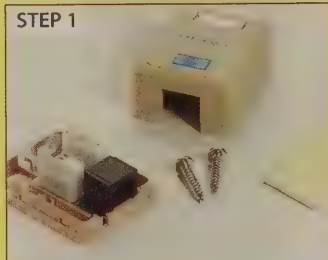
- SMB series surface mount box
- Wire cutters
- Jacket stripping tool
- 110 tool



See The Video

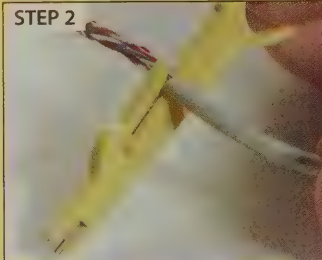
www.L-com.com/Videos/A18

STEP 1



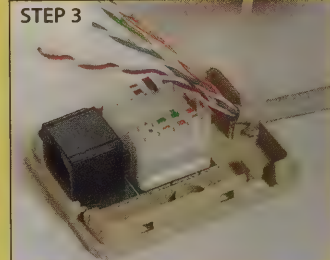
Remove cover and attach the jack base assembly using the supplied screws or double stick tape.

STEP 2



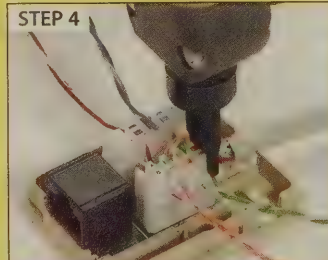
Remove approximately 3" of the outer jacket from the cable. Take care not to nick the wires.

STEP 3



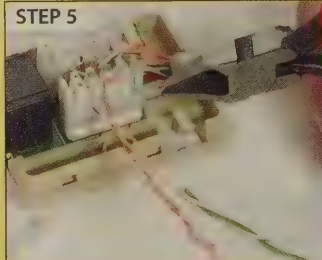
Secure the cable with a cable tie to the desired entry point.

STEP 4



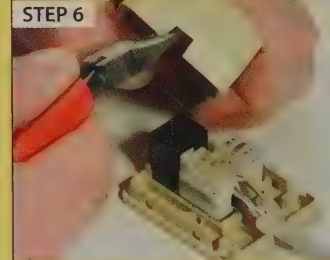
Insert the pairs to the color coded slots taking care to maintain the conductor twist at the IDC terminal. Punch down using a 110 style tool.

STEP 5



Trim excess wire (if your 110 tool doesn't cut) and snap on the retainers caps.

STEP 6



Notch the cover to match the cable entry and snap it in place.

RoHS Surface Wall Mount Backbox

Now you can easily design your own surface mount box. Depending on the kind of faceplate you choose to screw onto this backbox, you can make a surface mount box with various configurations. This backbox is designed to mount on a wall or other surface mount areas. It provides convenient rear and side knock outs for various cable entries. Each unit includes screws and double sided adhesive tape for mounting, Black rubber cable door and cable tie.

WMTA4709-WH	Surface Wall Mount Backbox	2.40	2.26	2.11	1.97	1.82
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RoHS Surface Mounted Jacks - Feature Standard Screw Connections and Snap Covers

Eliminating the cover retaining screw and pre-wiring the jack assembly to the terminals reduces installation time. Packaging includes double-sided adhesive tape for mounting on desks, cabinets or where attaching with wood screws is objectionable.

TDA310-4C	Modular Surface Mount Jack, Side Access, RJ11 (6x4)	1.99	1.87	1.75	1.63	1.51
TDA310-6C	Modular Surface Mount Jack, Side Access, RJ12 (6x6)	2.59	2.43	2.28	2.12	1.97
TDA310-8C	Modular Surface Mount Jack, Side Access, RJ45 (8x8)	3.99	3.75	3.51	3.27	3.03
TDA22NS	Modular Surface Mount Jack, Side Access, Keyed, RJ45 (8x8)K	3.95	3.63	3.32	3.00	2.69
RJ31X	Modular Surface Mount Jack, with Shorting Bars, RJ45 (8x8)	3.95	3.63	3.32	3.00	2.69

RoHS Surface Mounted Jacks - Narrow Type for High-Density Applications

Measuring less than 1.7" in width with cable entrance in the rear and supplied with wood mounting screws and two-sided adhesive tape. Screw terminal wiring.

TDA306-4C	Modular Surface Mount Jack, End Access, RJ11 (6x4)	2.10	1.93	1.76	1.60	1.43
TDA306-6C	Modular Surface Mount Jack, End Access, RJ12 (6x6)	2.45	2.25	2.06	1.86	1.67



Item #	Description	1-9	10-24	25-99	100-249	250-499
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110 Style Accessories - The Most Popular Way to Achieve Category 5E and 6 Performance

The 110 connect system is a high performance means of terminating UTP wiring and it is currently the most popular choice in installations. This system utilizes wiring blocks, connecting blocks, patch panels, 24 AWG UTP cabling and patch cords.

Most 110 style wiring blocks come pre-configured to a number of RJ45 ports, allowing easy patching with RJ45-RJ45 data grade patch cords. L-com offers a variety of common 110 style components. Other styles and configurations can be supplied on a custom basis; call our Technical Support Department for assistance.

RoHS Category 5E Wall Mount 12 Port Patch Panel

The Category 5E wall mount 12 port patch panel offers users an economical way to terminate smaller groups of connections without the need to install a rack system. Each block features industry standard 110 style connections and write-on surfaces for port identification. These panels are universally marked for EIA568A and EIA568B color codes.

MWB110C5E-12	Category 5E Patch Panel, 12 Port EIA568A/B	49.95	44.96	39.96	34.96	29.97
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Category 6 Wall Mount 12 Port Patch Panel

The Category 6 wall mount 12 port patch panel offers users high performance in a small package. Users can terminate Category 6 cabling without the need to install a rack system. Each block features industry standard 110 style connections and write-on surfaces for port identification. These panels are universally marked for EIA568A and EIA568B color codes.

MWB110C6-12	Category 6 Patch Panel, 12 Port EIA568A/B	59.95	53.96	47.96	41.97	35.97
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RoHS Category 5E 19" Rack Mount Patch Panel - 24 and 48 Port

L-com's Category 5E 19" rack mount patch panels come pre-configured in 24 and 48 port versions. These panels feature industry standard 110 punch-down style termination for quick installation. Users can identify ports by either writing directly on the screened in label surfaces or using a regular label printer to create labels. Each port is EIA568A/B color encoded for compatibility with all types of network jacks and cabling.

MRP110C5E-24	Category 5E Patch Panel, 24 Port EIA568A/B	99.95	89.96	79.96	69.97	59.97
MRP110C5E-48	Category 5E Patch Panel, 48 Port EIA568A/B	129.95	116.96	103.96	90.96	77.97

RoHS Category 6 19" Rack Mount Patch Panel - 24 and 48 Port

For enhanced performance users can choose L-com's Category 6 rack mount patch panels. These panels feature Category 6 performance for today's high-speed network installations. Installers will find easy to use 110 style punch down terminals for cable termination and write-on surfaces for port identification on the front panel. Each port is EIA568A/B color encoded for compatibility with all types of network jacks and cabling.

MRP110C6-24	Category 6 Patch Panel, 24 Port EIA568A/B	149.95	134.95	119.96	104.96	89.97
MRP110C6-48	Category 6 Patch Panel, 48 Port EIA568A/B	199.95	179.96	159.96	139.96	119.97

RoHS Voice Grade 19" Patch Panel with 50 RJ12 Ports

Consolidate voice terminations to your rack panel with L-com's 50 port RJ12 voice grade patch panel. This panel features a compact 1U 1.75" design with a total of 50 RJ12 style ports. On the back, installers will find 110 style connections for simple termination of cabling.

MRP110RJ12-50	Voice Grade Patch Panel, 50 Port RJ12	139.95	CALL	CALL	CALL	CALL
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Hellermann-Tyton® Premium Category 5E 19" Patch Panels - 24 and 48 Port

These universal patch panels are pre-configured in 24 and 48 port versions to meet the needs of most customer applications. Panels are offered with increments of 6 port modules - which can be replaced if damaged during installation. The universal panels can be used for both T568A and T568B wiring.

PP110C5E24	Enhanced Category 5E Panel, 24 Port	139.95	131.55	123.16	114.76	CALL
PP110C5E48	Enhanced Category 5E Panel, 48 Port	249.95	234.95	219.96	204.96	CALL
PP110C5E6	Enhanced Category 5E Module 6 Pack	29.95	28.15	26.36	24.56	CALL

Hellermann-Tyton® Premium 100Base-T Telco Patch Panel - 24 Port

This PowerSum telco patch panel converts feeder or equipment cables from 25 pair to 12 individual RJ45 ports with 2-pair presentation suitable for LAN applications. Panel utilizes two 50-pin/25 pair female connectors compatible with most 100Base-TX and 100Base-T Hubs. Active pins are 1, 2, 3 and 6.

PP100BT24	100Base-T Telco Panel, 24 Port	199.95	187.95	175.96	163.96	CALL
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Hellermann-Tyton® Premium Category 6 19" Patch Panels - 24 and 48 Port

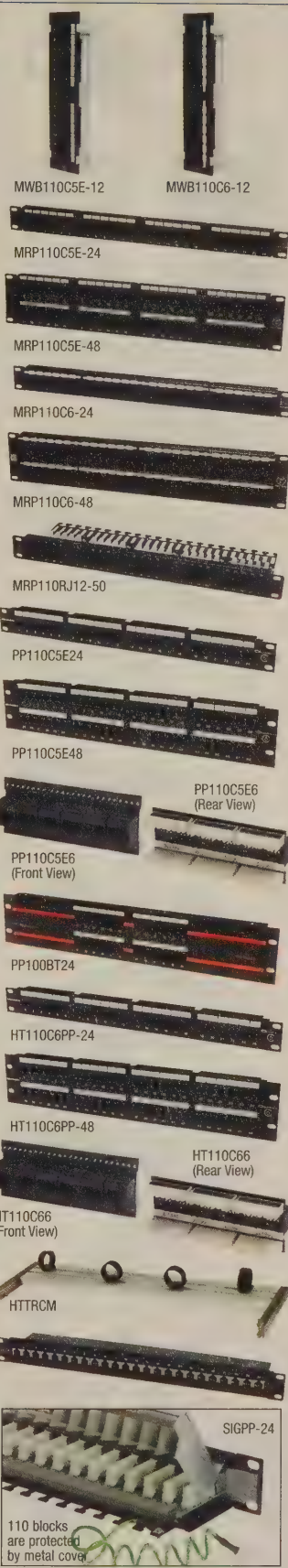
These universal patch panels are pre-configured in 24 and 48 port versions to meet the needs of nearly all customer applications. These panels are offered in increments of 6 port modules which can be replaced if damaged during installation. The universal panels can be used for both T568A and T568B wiring configurations, thus eliminating the need for extra inventory. These panels have a flush, front face which provides for an attractive appearance. Also available is a very simple, easy to install rear cable manager which is recommended for all Category 6 installations.

HT110C6PP-24	Category 6 Patch Panel, 24 Port EIA568A/B	229.95	220.75	211.55	202.36	CALL
HT110C6PP-48	Category 6 Patch Panel, 48 Port EIA568A/B	379.95	364.75	349.55	334.36	CALL
HT110C66	Category 6 Replacement Module - 6 pack	49.95	48.95	47.95	46.95	45.95
HTTRCM	Universal Rear Cable Manager	44.03	41.39	38.75	36.10	CALL

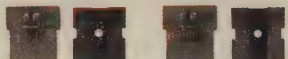
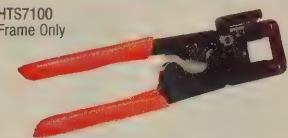
RoHS 24 Port Category 5E Shielded 19" Patch Panel - Industrial Grade

This Category 5E rack panel is fully shielded for use in areas with high levels of noise and EMI. Commonly used in industrial environments the panels are made using heavy gauge sheet metal that fully encloses over the circuit board and cable terminations for ultimate shielding. Permanent connections are made to 110 style IDC contacts and patching is made through shielded RJ45 (8x8) modular connectors. This 24 port panel mounts into standard 19" racks and takes 1U of rack height (1.75 in.). Compatible with EIA568A or B wiring schemes. 18 AWG grounding wire included. Color: Black

SIGPP-24	24 Port Shielded Category 5E Patch Panel	279.95	268.75	257.55	246.36	CALL
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HTS7100
Frame Only



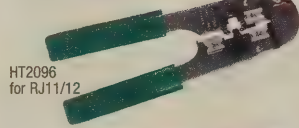
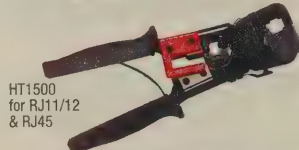
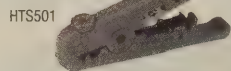
HTS7100-04
4 Position Die Set

HTS7100-06A
6 Position Die Set



HTS7100-08A
8 Position Die Set

HTS7100-10
10 Position Die Set



Item #	Description	1-9	10-24	25-99	100-249	250-499
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Tela-Crimp Tool Provides High Level of Versatility and Termination Reliability

The ultimate design based on many years experience. This new model produces a perfect crimp every time and is offered at an affordable price. Dies need to be purchased separately. The following features should be noted:

- Full cycle ratchet action assures consistent terminations.
- A release lever is provided to prevent faulty crimps.
- The compound action produces high crimping forces with minimal user effort.
- A replaceable cutter and stripper are conveniently placed offering two strip lengths per industry standards.
- All dies are interchangeable and guarantee perfect alignment.
- The modular plug nests accept most configurations available within the industry today.
- Spring activated handles have cushion grips to minimize user fatigue.
- Tools are conservatively rated for 50,000 crimps.

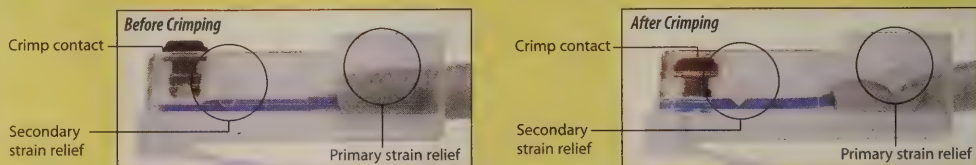
HTS7100	Crimp Tool Only, accepts any HTS7100 Die Set	69.50	66.72	63.94	61.16	CALL
HTS7100-04	4 Position Die Set with Primary & Secondary Strain Relief for RJ22 Handset Plugs	29.50	28.32	27.14	25.96	CALL
Note: This die is equipped with a secondary strain relief. For use with Stewart and generic plugs only. May damage other vendor's plugs.						
HTS7100-06A	6 Position Die Set without Secondary Strain Relief, for all RJ11 & RJ12 Plugs	29.50	28.32	27.14	25.96	CALL
HTS7100-08A	8 Position Die Set without Secondary Strain Relief, for all RJ45 Plugs	29.50	28.32	27.14	25.96	CALL
HTS7100-10	10 Position Die Set without Secondary Strain Relief	33.50	32.16	30.82	29.48	CALL



Tip

What is a primary and secondary strain relief?

The three main points of contact within any plug are the crimp contact, primary strain relief and secondary strain relief. Compatibility issues exist between various plug and tool designs with respect to the secondary strain relief. If the plug and tool are slightly misaligned due to incompatibility, bad crimps end up crushing the plug. The plugs and tools listed have been carefully chosen to minimize compatibility problems.



✓RoHS UTP/STP Cable Stripper for Round or Flat Cable

This handy cable stripping tool is a great addition to any cable installer's tool belt. Featuring an adjustable blade for all sizes of UTP, STP, and flat silver satin cabling, this tool allows users to consistently remove the cable jacket without damaging the internal conductors. The cable stripper also features a built in cable cutter.

HTS501	Modular Cable Stripper for UTP/STP Round or Flat Cable	12.95	12.43	11.91	11.40	10.88
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Heavy Duty Two-in-One Tool - Strip and Crimp RJ11/12 and RJ45 Modular Cables

Finally a quality tool at a reasonable price. This two-in-one tool features a straight-line-parallel operation of the die set for precision crimping each and every time. Tool has two sets of dies to accept a 2, 4 or 6 position RJ11/12 and more important the RJ45 (8x8), either keyed or non-keyed. Equipped with a built-in wire stripper. All steel construction with plastic handle grips for overall comfort.

HT1500	Two-In-One Modular Crimp Tool	49.95	44.96	39.96	34.96	CALL
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Medium Service Hand Tools - Cut, Strip and Crimp Modular Plugs to Flat Cable

Durable modular crimp tools with carbon steel dies and all steel construction to withstand frequent use. Three tool types satisfy the requirements of crimping 4x4 handset, RJ11, RJ12, and RJ45 modular plugs. The HT210A accepts RJ45 plugs either with or without key.

HT210A	Modular Crimp Tool Kit for RJ45 Plugs	28.95	26.06	23.16	20.26	CALL
HT2096	Modular Crimp Tool for RJ11 and RJ12 Plugs	24.95	22.46	19.96	17.47	CALL
HT2094C	Modular Crimp Tool for 4x4 Handset Plugs	22.95	20.66	18.36	16.06	CALL

Heavy Duty Ratcheting Crimp Tools for TDS8PC5 Shielded Plugs

These crimp tools are specifically designed for L-com's TDS8PC5 heavy duty shielded plugs. Features include, fully ratcheting crimp action, hardened dies and adjustability. The HTS2500 crimps the contact and strain relief in one step. The HTS2600 features separate crimp and strain relief capability in two steps.

HTS2500	Crimp Tool for Shielded Plugs with Strain Relief, One Step	69.50	66.72	63.94	61.16	CALL
HTS2600	Crimp Tool for Shielded Plugs with Strain Relief, Two Step	79.50	76.32	73.14	69.96	CALL

✓RoHS Cable Prep Tools - Fast, Easy Stripping of UTP or Data Cable Jacket Covers

These are the simplest tools we've ever seen for removing the jacket from round, unshielded or shielded twisted pair cable. The TCPT2 tool is intended for removing the jacket on UTP cable only. The second tool, the TCPT110, also incorporates a 110 blade for punching 110 blocks. Just insert the cable into the tool, twist/turn a couple of times and pull off the jacket slug. Simple and yet inexpensive enough to have a few on hand.

TCPT2	UTP Round Cable Jacket Stripper	5.99	5.51	5.03	4.55	CALL
TCPT110	UTP Round Cable Jacket Stripper with 110 Punch	6.99	6.43	5.87	5.31	CALL

Heavy Duty Modular Crimp Tool Kit Includes RJ45 and RJ11/12 Plugs

This tool kit includes 1 HT1500 crimping tool for RJ45 and RJ11/12 plugs, 20 RJ11/12 plugs for flat cable, 20 RJ11/12 plugs for round cable, 20 RJ45 plugs for flat cable, 20 RJ45 plugs for round cable and a four compartment case.

TCR68MOD	RJ45 and RJ12 Crimp Tool Kit with Plugs	59.95	58.75	57.55	56.35	55.15
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Item #	Description	1-9	10-24	25-99	100-249	250-499
RoHS Protective Covers for Plugs and Jacks - Protect Unused Ports and Cables from Contact Damage						
These covers are perfect for protecting unused ports in wall plates and expensive equipment from physical damage, dirt and grime. Made from flexible PVC, these covers attach easily and stay in place with a snug friction fit.						
MP45P	RJ45 Protective Covers for Plugs, Pkg/100	14.95	14.65	14.35	14.05	13.75
MP45J	RJ45 Protective Covers for Jacks, Pkg/100	15.95	15.63	15.31	14.99	14.67

DSL Line Conditioners - Filters Noise for Better Performance

These are two types of DSL Line Conditioners for filtering out unwanted noise. The devices use 2 pole low pass filters. Inline plug/jack or wall plate configurations. Color: Ivory. Specifications: REN 0.2B; DC Resistance Through T&R to Phone: 10 Ohms; Loading Capacity: 47nF; Attenuation Distortion $\pm$ 1 dB max.; 3 dB Cutoff Point.

S900LC50-I	Inline DSL Conditioner, RJ12 (6x6) Male / Female	6.95	6.67	6.39	6.12	5.84
S630LCC-I	Wall Mount DSL Conditioner, RJ12 (6x6) Jack	7.95	7.63	7.31	7.00	6.68

RoHS Wire Tap and Butt Splice - Gel Filled IDC Connectors

These handy IDC connectors make wire splicing a snap. Gel filled IDC contact area provides a moisture resistant barrier for reliable connections. Usable with 19-26 AWG copper wire with a .066" maximum insulation diameter (.060 max. for WT-UY). Sold in 100 piece packs.

WT-UY	UY Butt Splice 2 Wire Connector, Gel Filled, Pkg/100	9.95	9.55	9.15	8.76	8.36
WT-UR	UR Wire Connector, Gel Filled, Pkg/100	12.95	12.43	11.91	11.40	10.88
WT-UB	UB Butt Tap Connector, Gel Filled, Pkg/100	12.95	12.43	11.91	11.40	10.88



110 Wiring Block Field Termination Kits - Everything Necessary to Wire a 110 Block

Each kit contains one 100 pair wiring block with detachable legs, label holders with designation labels and sufficient connecting blocks. Note: Each kit includes enough connecting blocks to complete each 25 pair termination strip on the 110 wiring block. (ex. The S110K-4PR kit would include five four pair and one five pair connecting block per 25 pair termination strip).

Wiring blocks are the main instrument in setting up horizontal wiring in a 110 style connector system. These are surface mountable molded plastic units that secure and organize cable pairs. Designation strips are mounted to the wiring block addressing each cable termination. 2, 3, 4 or 5 pair connecting blocks snap over the wire terminations on the wiring block. These contain insulation displacement quick connect clips and provide a gas tight connection between the cable conductor and cross connect system.

S110K-3PR	100 Pair Wiring Block Kit with 3 Pair Connecting Blocks	39.95	39.15	38.35	37.55	36.75
S110K-4PR	100 Pair Wiring Block Kit with 4 Pair Connecting Blocks	41.95	41.11	40.27	39.43	38.59
S110K-5PR	100 Pair Wiring Block Kit with 5 Pair Connecting Blocks	44.95	44.05	43.15	42.25	41.35

50 Pair 66 Style Category 5 Block

This 66 style 50 pair block has been designed to meet Category 5 requirements as specified by the EIA/TIA. Ease of use and low cost has made this style of block one of the most popular termination methods. Improved design now permits use in data applications up to 100 Mbps! Included are 100 quick connect bridging clips and a clear protective cover. 66 type tool required for termination.

S66M1-50-C5	50 Pair 66 Style Block, Category 5 Rated	16.95	16.61	16.27	15.93	15.59
C1127-A1	Bridging Clips for 66 Style Blocks, Pkg/50	4.99	4.79	4.59	4.39	CALL

RoHS Multi-Pair Termination Tool for 110 Blocks

This professional grade tool is designed to terminate and cut up to 5 pairs of UTP wires once they are laid into the 110 connector. Blade is reversible with one side crimping and cutting excess wire and the other side just crimping. Impact mechanism makes reliable terminations every time.

S110MPC	Multi Pair Impact Tool for 110 Blocks	149.95	143.95	137.95	131.96	CALL
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Professional Grade Cable Splicer Knife, Scissor and Kit

These tools are a great addition to any cable technicians tool kit. The CS925 is an industrial grade serrated scissor capable of cutting thin wires and cable jacketing. This tool also has wire stripping notches on one blade as well as a scraper and file on the back of the other. The CK6 is a forged steel splicer knife with red cushioned handle. It comes in handy whenever a sharp blade is necessary. The CS925KIT offers both tools plus a heavy duty leather holder that will keep the knife and scissor secured to a tool belt.

CS925	Cable Splicer Serrated Scissor	16.50	15.84	15.18	14.52	CALL
CK6	Cable Splicer Knife	10.90	10.46	10.03	9.59	CALL
CS925KIT	Knife and Scissor with Holder	33.50	32.16	30.82	29.48	CALL

Parallel Action Pliers - Use for Compressing IDC Body to Jack

These parallel action pliers are great for crimping wire taps and butt splices. The jaws of the tool work close in parallel providing a better crimp than regular pliers.

HT1008	Parallel Action Pliers	49.95	48.95	47.95	46.95	45.95
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RoHS Premium Auto Impact Tool - Our Best Model, Features an Adjustable Spring Load

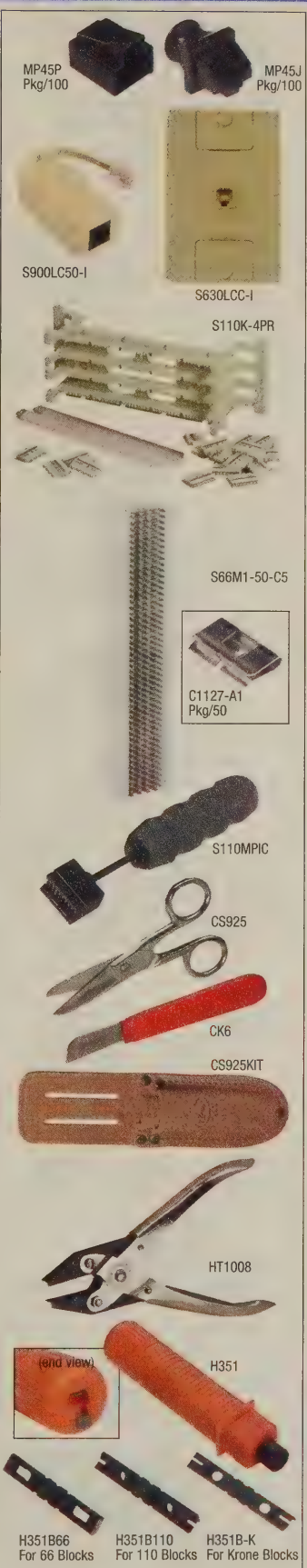
Now installers can make effortless, uniform connections with L-com's premium auto impact tool. Set tool for high or low impact with a variable impact pressure control that will provide the right amount of force. Blades are easily reversible, one end terminates only while the other terminates and cuts. This model features a hidden storage compartment which opens to fit an extra blade. Accepts blades for 66, 110 and Krone use. This tool comes without blades, order separately.

H351	Premium Impact Tool Body Only, Without Blade	38.50	36.96	35.42	33.88	32.34
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RoHS Reversible Blades - Fit H351 Series Tool

H351B66	Impact Blade, Reversible for 66 Terminals	9.95	9.55	9.15	8.76	8.36
H351B110	Impact Blade, Reversible for 110 Terminals	9.95	9.55	9.15	8.76	8.36
H351B-K	Impact Blade, Reversible for Krone Terminals	9.95	9.55	9.15	8.76	8.36

Note: Mixing of blades is allowed for quantity pricing

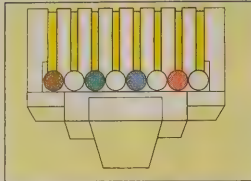


"I am currently working on a project that uses at least 6 of L-com's connectors and panels. I consider your web site & component data/solid model availability to be superior to any other site. Your CAD step files are really well done and the solid models are priceless." - Phil Marsh, M.E. Solutions, Product Design & Engineering Services



- ☐ FCC compliant, Part 68, Doc. 47, Sub F.
- ☐ UL component recognized, File E132408(N)-DUXR2.
- ☐ Certified Canadian Standards Assn., File 67725.

Standard Alignment



A 4x4
Handset



B 6x4
RJ11



C 6x6
RJ12



D 6x6
MMJ



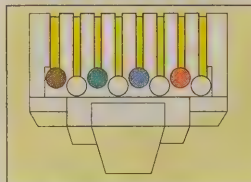
E 8x8
RJ45



F 8x8K
RJ45
(Keyed)



Staggered Alignment



TSP4288C6

TSP4088C5

TSP4088C5S

Item # Description Code 1-9 10-24 25-99 100-249 250-499

The Ultimate in Modular Telco Plugs, Made in the USA, Comply with Industry Standards

L-com offers Stewart modular plugs featuring mirror smooth contact surfaces for extended mating life. Lowest contact resistance and high reliability. Pre-inserted selectively gold plated contacts are ready for mass termination on most industry compatible crimping machines and hand tools. Fully complies with FCC & telephone industry standards for size and performance. Choice of plugs for flat modular or round UTP cable. Plugs accept 24-28AWG stranded or solid conductors. Sold only in packages of 100 plugs.



Tip

What is the difference between a Stewart contact plug and a commercial grade contact plug?



Smooth surface

Dual strength

Stewart contact plug



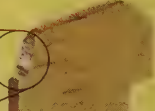
Consistent 50 microinch gold plating

Superior contact design



Rough surface

Commercial grade contact plug



Uneven plating

Poor contact design

RoHS Modular Plugs for Flat Cable - With Standard Rectangular Cable Entrance

TSP3044	Modular Plugs, Handset (4x4), Pkg/100	A	29.95	27.55	25.16	22.76	CALL
TSP3046	Modular Plugs, RJ11 (6x4), Pkg/100	B	29.95	27.55	25.16	22.76	CALL
TSP3066	Modular Plugs, RJ12 (6x6), Pkg/100	C	34.95	32.15	29.36	26.56	CALL
TSP3088	Modular Plugs, RJ45 (8x8), Pkg/100	E	49.95	45.95	41.96	37.96	CALL

RoHS Modular Plugs for Round Twisted Pair Cable - With Radiused Cable Entrance

TSP3046R	Modular Plugs, RJ11 (6x4), Pkg/100	B	29.95	27.55	25.16	22.76	CALL
TSP3066R	Modular Plugs, RJ12 (6x6), Pkg/100	C	34.95	32.15	29.36	26.56	CALL
TSP3066R-MMJ	Modular Plugs, MMJ (6x6), Pkg/100	D	39.95	38.35	36.75	35.16	CALL
TSP3088R	Modular Plugs, RJ45 (8x8), Pkg/100	E	49.95	45.95	41.96	37.96	CALL

SPECIFICATIONS:

Material: Insulator - Polycarbonate rated UL 94V-0
Contacts - Phosphor Bronze

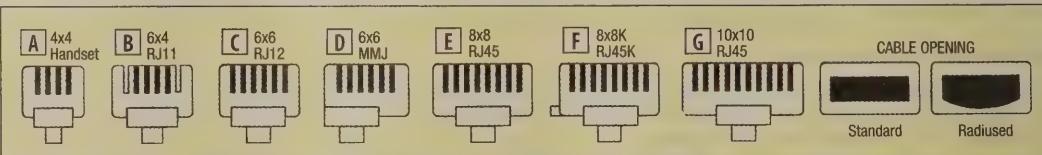
Plating: 50 microinch gold to MIL-G-45204, Type II, Grade C min. on contact area over 100microinch min Nickel underplate to QQ-N-290, Class 2, Grade C, gold flash on balance.

Electrical: Voltage Rating - 150 VAC max.
Current Rating - 1.5 Amps max.

Contact resistance - 15 milliohms min.
Insulation resistance - 500 Mohm min @ 1000 VAC between adjacent contacts (75°F and 50% R.H.)
Dielectric withstanding voltage - 1000 VAC min rms (sea level).

Mechanical: Terminates to 24, 26 and 28 AWG
Accepts Stranded or Solid conductors.
Mating durability - 1,000 cycles min.

Environmental: Operating temperature - -40°C to +85°C.



RoHS High Performance Category 5/5E and Category 6 Staggered Alignment Plugs

Stewart's staggered-pin Category 5/5E and Category 6 rated RJ45 crimp plugs are designed for today's high performance networks. A superior two-prong contact design works for both solid and stranded conductors. The multi-level contact design helps improve performance. The shielded version protects against EMI/RFI interference and maintains proper ground connection. Sold in packages of 50 plugs.

TSP4288C6	Modular Plugs, RJ45(8x8) Category 6, Pkg/50	49.95	45.95	41.96	37.96	CALL
TSP4088C5	Modular Plugs, RJ45(8x8) Category 5/5E, Pkg/50	29.95	27.55	25.16	22.76	CALL
TSP4088C5S	Modular Plugs, RJ45(8x8) Category 5/5E Shielded, Pkg/50	49.95	45.95	41.96	37.96	CALL



Tip

What is the difference between stranded and solid contact design?

Solid or Stranded



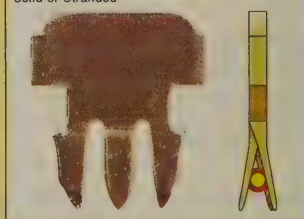
Two point staggered for solid or stranded. The contact prongs straddle the conductor.

Stranded Only



Piercing type for stranded. Jagged end pierces jacket and embeds into the strands of the conductor.

Solid or Stranded



Tripoint type for solid or stranded. Long contact prongs spread apart to accept conductor.

Item #	Description	1-9	10-24	25-99	100-249	250-499
RoHS Stranded Conductor Modular Plugs - Rectangular Entry for Flat Cable						
A full complement of modular plugs is offered for all applications. Piercing-type connections are simultaneously made through each stranded conductor of 24-28 AWG flat modular cable. 15 microinches gold plating on contacts. Sold in packages of 100 plugs.						
TD4P4HS	Modular Plugs, Handset (4x4), Pkg/100	19.95	18.35	16.76	15.16	13.57
TD6P4C	Modular Plugs, RJ11 (6x4), Pkg/100	19.95	18.35	16.76	15.16	13.57
TD6P6C	Modular Plugs, RJ12 (6x6), Pkg/100	24.95	22.95	20.96	18.96	16.97
TD6P6MMJ	Modular Plugs, MMJ (6x6), Pkg/100	29.95	27.55	25.16	22.76	CALL
TD8P8C	Modular Plugs, RJ45 (8x8), Pkg/100	39.95	36.75	33.56	30.36	27.17
TD8P8CK	Modular Plugs, RJ45 (8x8) (Keyed), Pkg/100	39.95	36.75	33.56	30.36	27.17

RoHS Stranded Conductor Modular Plugs - Radiused Entry for Round or Flat Cable

These modular plugs have a radiused rear entry compatible with most round and flat cables. 50 microinches gold plating on contacts. Compatible with 24-28 AWG stranded conductors.

TDR6P4C	Modular Plugs, RJ11 (6x4), Pkg/100	19.95	18.35	16.76	15.16	CALL
TDR6P6C	Modular Plugs, RJ12 (6x6), Pkg/100	24.95	22.95	20.96	18.96	CALL
TDR8P8C	Modular Plugs, RJ45 (8x8), Pkg/100	39.95	36.75	33.56	30.36	CALL
TDR10P10C	Modular Plugs, RJ45 (10x10), Pkg/100	49.95	45.95	41.96	37.96	CALL

RoHS Shielded Long Body RJ45 Generic Plug

This one plug will accept round or flat cable with solid or stranded wires. Prices shown are per piece. Compatible with generic 8x8 crimp tools such as L-com part numbers: HT210A, HT1500, HTS7100 + HTS7100-08A die set and HTS2100 + HTS2100-08 die set.

T8P8CSR	Shielded Modular Plug, RJ45 (8x8), Single	0.95	0.87	0.80	0.72	CALL
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RoHS Shielded Category 5E and Category 6 RJ45s for Solid or Stranded Cables

A superior high performance shielded plug system that allows users to perform factory grade terminations in the field is now available. A unique metallic strain relief provides superior cable retention and a reliable 360-degree shielding contact. The short body design combined with a loading bar allows easy insertion into maintaining Category 5E or Category 6 twist requirements. Superior two-point contact design is compatible with solid and stranded cable. Improve your shielded cable performance by designing in L-com's shielded plugs.

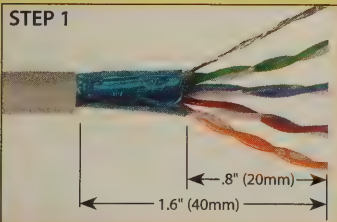
TDS8PC5	Category 5E Shielded Modular Plug, RJ45 (8x8), - Pkg/50	74.50	71.52	68.54	65.56	62.58
TDS8PC6	Category 6 Shielded Modular Plug, RJ45 (8x8), - Pkg/50	79.95	76.75	73.55	70.36	67.16
TDS8CVR-GR	8x8 Shielded Covers, Gray - Pkg/50	12.50	11.50	10.50	9.50	CALL
TDS8CVR-BK	8x8 Shielded Covers, Black - Pkg/50	12.50	11.50	10.50	9.50	CALL
TDS8CVR-BL	8x8 Shielded Covers, Blue - Pkg/50	12.50	11.50	10.50	9.50	CALL
TDS8CVR-GN	8x8 Shielded Covers, Green - Pkg/50	12.50	11.50	10.50	9.50	CALL
TDS8CVR-IV	8x8 Shielded Covers, Ivory - Pkg/50	12.50	11.50	10.50	9.50	CALL
TDS8CVR-RD	8x8 Shielded Covers, Red - Pkg/50	12.50	11.50	10.50	9.50	CALL
TDS8CVR-WH	8x8 Shielded Covers, White - Pkg/50	12.50	11.50	10.50	9.50	CALL
TDS8CVR-YL	8x8 Shielded Covers, Yellow - Pkg/50	12.50	11.50	10.50	9.50	CALL
HTS2500	Crimp Tool for Shielded Plugs with Strain Relief, One Step	69.50	66.72	63.94	61.16	CALL
HTS2600	Crimp Tool for Shielded Plugs with Strain Relief, Two Step	79.50	76.32	73.14	69.96	CALL

How to assemble a TDS8PC5 and TDS8PC6 series shielded Category 5E and Category 6 modular plugs

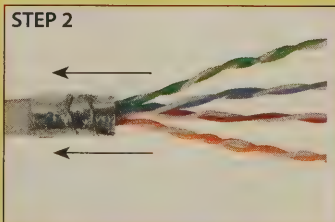


See The Video

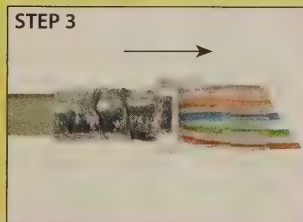
www.L-com.com/Videos/A22



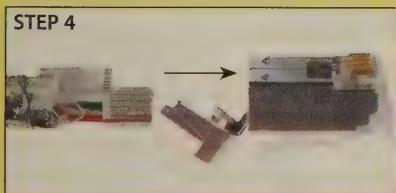
Strip jacketing and shield to dimensions shown.



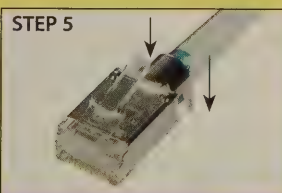
Fold shield back onto jacketing. Wrap drain wire one and a half times around shield. Trim excess.



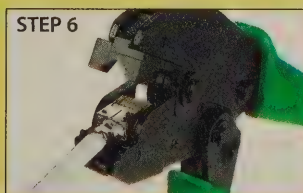
Untwist pairs and arrange to desired order. Trim conductors at an angle and insert into loading bar. Trim excess wires.



Insert prepared cable into plug.

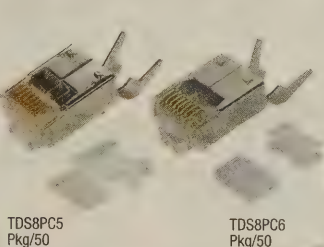
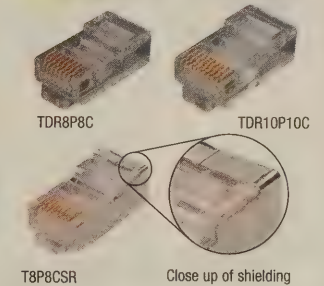
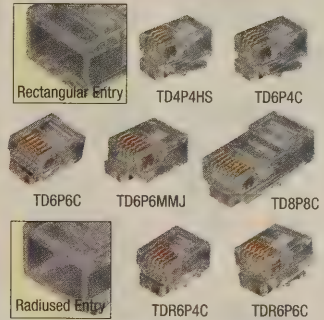
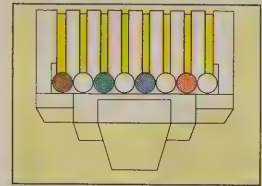


Bend strain relief to lay along cable.



Crimp plug with the specially designed HTS2500 or HTS2600 crimp tool.

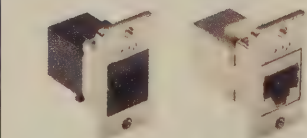
Standard Alignment



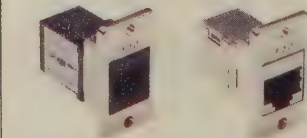
How to terminate a TDS8PC modular plug

See the free video tip and more at L-com.com/Videos/A22

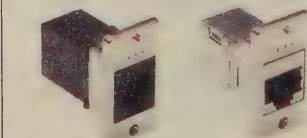
L-com Exclusive



ECF504-C3 ECF504-SC3



ECF504-C5 ECF504-SC5E



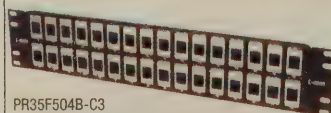
ECF504-C6 ECF504-SC6



PR175F504B-C3
PR175F504B-C5
PR175F504B-C6



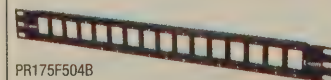
PR175F504B-SC3
PR175F504B-SC5
PR175F504B-SC6



PR35F504B-C3
PR35F504B-C5
PR35F504B-C6



PR35F504B-SC3
PR35F504B-SC5
PR35F504B-SC6



PR175F504B



PR35F504B

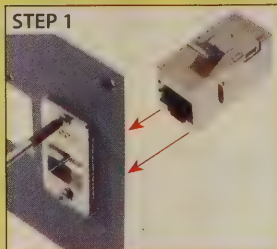
Item #	Description	1-9	10-24	25-99	100-249	250-499
RoHS Premium Panel Mounted Modular Coupler Kits - Category 3, 5E and 6 - Shielded and Unshielded						
These unique coupler kits allow panel mounting in virtually any panel thickness. A solid die-cast metal mounting frame provides secure mounting and reliable grounding. Kits include a snap-in coupler, mounting frame and two 4-40 machine screws.						
ECF504-C3	Category 3 Unshielded RJ45 (8x8) Deluxe Panel Coupler Kit	6.95	6.39	5.84	5.28	4.73
ECF504-SC3	Category 3 Shielded RJ45 (8x8) Deluxe Panel Coupler Kit	8.95	8.23	7.52	6.80	6.09
ECF504-C5	Category 5E Unshielded RJ45 (8x8) Deluxe Panel Coupler Kit	9.95	9.15	8.36	7.56	6.77
ECF504-SC5E	Category 5E Shielded RJ45 (8x8) Deluxe Panel Coupler Kit	11.95	10.99	10.04	9.08	8.13
ECF504-C6	Category 6 Unshielded RJ45 (8x8) Deluxe Panel Coupler Kit	11.95	10.99	10.04	9.08	8.13
ECF504-SC6	Category 6 Shielded RJ45 (8x8) Deluxe Panel Coupler Kit	13.95	12.83	11.72	10.60	9.49

Easily install a premium ECF coupler kit

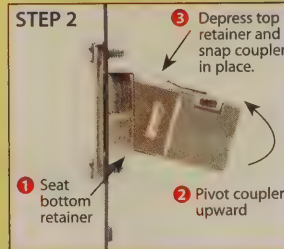


See The Video

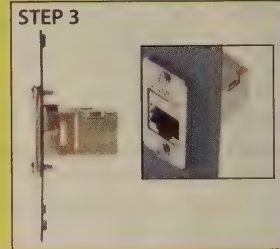
www.L-com.com/Videos/AD9



Secure frame in specified opening with supplied hardware and align coupler in proper orientation to the opening.



Seat bottom retainer and pivot coupler upward while depressing upper retainer.



Coupler fully seated.

RoHS Telecom and Network Grade Patch Panels

These 19" panels feature L-com's exclusive ECF series flange mounted feed-thru couplers. These couplers are available in Category 3, Category 5E or Category 6 in either shielded or non-shielded styles. The ECF series couplers are unique in that they use 2 4-40 screws to firmly attach the connector flange to the rack panel. The panels have a powder coat Black finish for durability and each port is numbered to simplify cable organization and tracking. Both 16 and 32 port versions are available.

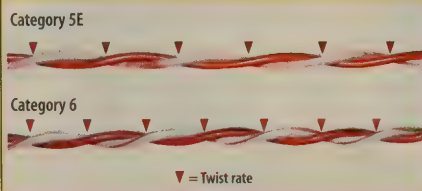
PR175F504B-C3	1.75" Panel with 16 Category 3 Couplers	129.95	124.75	119.55	114.36	109.16
PR175F504B-SC3	1.75" Panel with 16 Category 3 Shielded Couplers	159.95	153.55	147.15	140.76	134.36
PR35F504B-C3	3.50" Panel with 32 Category 3 Couplers	229.95	220.75	211.55	202.36	193.16
PR35F504B-SC3	3.50" Panel with 32 Category 3 Shielded Couplers	299.95	287.95	275.95	263.96	251.96
PR175F504B-C5	1.75" Panel with 16 Category 5E Couplers	169.95	163.15	156.35	149.56	142.76
PR175F504B-SC5	1.75" Panel with 16 Category 5E Shielded Couplers	229.95	220.75	211.55	202.36	193.16
PR35F504B-C5	3.50" Panel with 32 Category 5E Couplers	319.95	307.15	294.35	281.56	268.76
PR35F504B-SC5	3.50" Panel with 32 Category 5E Shielded Couplers	399.95	383.95	367.95	351.96	335.96
PR175F504B-C6	1.75" Panel with 16 Category 6 Couplers	199.95	191.95	183.95	175.96	167.96
PR175F504B-SC6	1.75" Panel with 16 Category 6 Shielded Couplers	249.95	239.95	229.95	219.96	209.96
PR35F504B-C6	3.50" Panel with 32 Category 6 Couplers	349.95	335.95	321.95	307.96	293.96
PR35F504B-SC6	3.50" Panel with 32 Category 6 Shielded Couplers	429.95	412.75	395.55	378.36	361.16
PR175F504B	1.75" Panel, 16 ECF Style Cutouts, Black	34.95	34.25	33.55	32.85	32.15
PR35F504B	3.50" Panel, 32 ECF Style Cutouts, Black	39.95	39.15	38.35	37.55	36.75



Tip

What is the difference between Category 5E & Category 6 100 Ohm UTP?

The new Category 6 standard adopted in mid 2002 extended key parameters over Category 5E specifications. The additional headroom is intended to provide quality transmission at higher data rates required by emerging applications. As the chart indicates, the most prominent difference is the frequency at which the key parameters are measured. The jump from 100 to 250MHz places a great deal of emphasis on component quality as well as installation techniques. This improvement is commonly noticed by the increased pair twisting and staggering of twisted pairs.



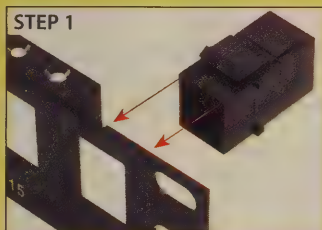
	Category 5E	Category 6
Frequency	100 MHz	250 MHz
Attenuation	22db	19.8db/100M @ 100 MHz 32.8db/100M @ 250 MHz
Return Loss	19db	19db @ 100 MHz 15.6db @ 250 MHz
Delay Skew	45ns	45ns
Near End Crosstalk (NEXT)	35.3db	44.3db @ 100 MHz 38.3db @ 250 MHz
Power Sum Near End Crosstalk (PS-NEXT)	32.3db	42.3db @ 100 MHz 36.3db @ 250 MHz
Equal Level Far End Crosstalk (ELFEXT)	23.8db	27.8db @ 100 MHz 19.8db @ 250 MHz
Power Sum Equal Level Far end Crosstalk (PS-ELFEXT)	20.8db	24.8db @ 100 MHz 16.8db @ 250 MHz



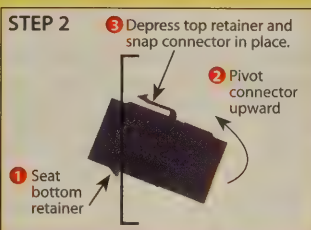
Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
RoHS TDG1026KC3	Category 3 Unshielded RJ45 (8x8) Keystone Feed-thru Coupler		3.99	3.59	3.19	2.79	2.39
TDG1026KS-8P	Category 3 Shielded RJ45 (8x8) Keystone Feed-thru Coupler		8.95	8.06	7.16	6.27	5.37
TDG1026KC5	Category 5E Unshielded RJ45 (8x8) Keystone Feed-thru Coupler		8.95	8.06	7.16	6.27	5.37
TDG1026KS-C5E	Category 5E Shielded RJ45 (8x8) Keystone Feed-thru Coupler		10.95	9.86	8.76	7.67	6.57
TDG1026KC6	Category 6 Unshielded RJ45 (8x8) Keystone Feed-thru Coupler		9.95	8.96	7.96	6.97	5.97
TDG1026KS-C6	Category 6 Shielded RJ45 (8x8) Keystone Feed-thru Coupler		12.95	11.66	10.36	9.07	7.77

Easily panel mount a keystone style connector

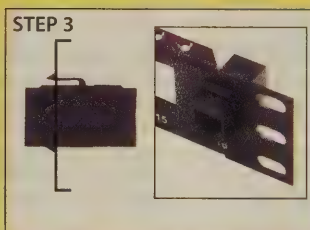
Keystone style refers to the snap-in mounting mechanism that many manufacturers have adopted.



Align connector in proper orientation to the opening.



Seat bottom retainer and pivot connector upward while depressing upper retainer.



Connector fully seated.



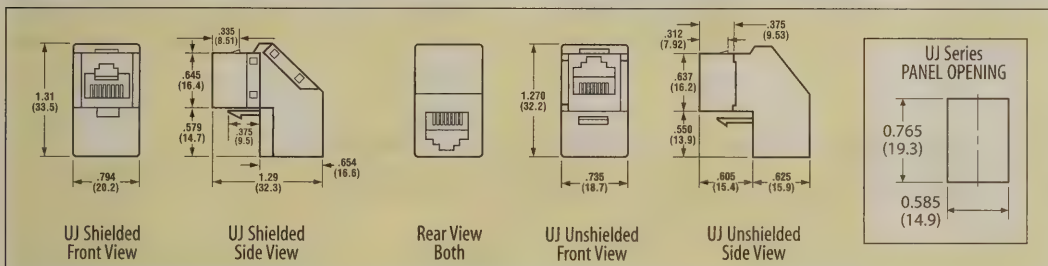
See The Video

www.L-com.com/Videos/A10

RoHS Premium Keystone Style RJ45 (8x8) Feed-Thru Modular Couplers - Category 5E Rated

Two Category 5E feed-thru modular couplers for mating EIA568 A or B Category 5 connections. In both shielded and unshielded versions, this unique offset design maintains Category 5E performance and limits depth to only 1.25". Designed to mate with keystone style holes. Color: Black or Silver.

UJ5T568	Modular Coupler, Cat. 5E RJ45 (8x8), Unshielded	Black	9.95	9.15	8.36	7.56	6.77
UJ5T568S	Modular Coupler, Cat. 5E RJ45 (8x8), Shielded	Silver	11.95	10.99	10.04	9.08	8.13



RoHS Premium Keystone Style - 16 and 32 Port Feed-Thru Modular Panels, Category 5E Rated

These 19" rack panels utilize the UJ5T568 and UJ5T568S couplers. 16 and 32 port versions available in shielded and unshielded configurations. Category 5E rated. Color: Black.

PR175UT568	1.75" 16 Port Cat. 5E Feed-Thru Panel, Unshielded	Black	179.95	165.55	151.16	136.76	CALL
PR175UT568S	1.75" 16 Port Cat. 5E Feed-Thru Panel, Shielded	Black	199.95	183.95	167.96	151.96	CALL
PR35UT568	3.50" 32 Port Cat. 5E Feed-Thru Panel, Unshielded	Black	299.95	275.95	251.96	227.96	CALL
PR35UT568S	3.50" 32 Port Cat. 5E Feed-Thru Panel, Shielded	Black	379.95	349.55	319.16	288.76	CALL

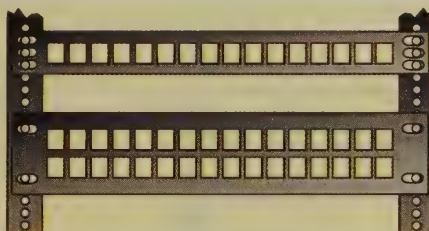
RoHS Keystone Style - 16 and 32 Port Feed-Thru Modular Panels - Category 6 Rated

These rack panels utilize the TDG1026KC6 or TDG1026KS-C6 Category 6 couplers. 16 and 32 port versions are available in shielded and unshielded configurations. Color: Black.

PR175C6-16	1.75" 16 Port Cat. 6 Feed-Thru Panel, Unshielded	Black	189.95	174.75	159.56	144.36	CALL
PR175C6-16S	1.75" 16 Port Cat. 6 Feed-Thru Panel, Shielded	Black	239.95	220.75	201.56	182.36	CALL
PR35C6-32	3.50" 32 Port Cat. 6 Feed-Thru Panel, Unshielded	Black	319.95	294.35	268.76	243.16	CALL
PR35C6-32S	3.50" 32 Port Cat. 6 Feed-Thru Panel, Shielded	Black	369.95	340.35	310.76	281.16	CALL

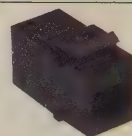
How Rack Spaces and Sizes are Measured

Racks are a great way to neaten up wiring closets and labs. Network equipment and rack panels usually come in 1.75", 3.5" and 5.25" heights, (1, 2 and 3 rack spaces).



1 Rack Space = 1.75 in

2 Rack Spaces = 3.5 in



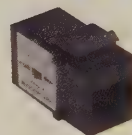
TDG1026KC3



TDG1026KS-8P



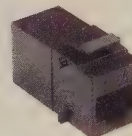
Best Seller



TDG1026KC5



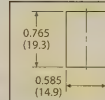
TDG1026KS-C5E



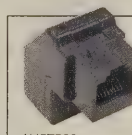
TDG1026KC6



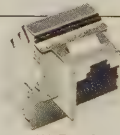
TDG1026KS-C6



TDG1026K
PANEL OPENING



UJ5T568
(Unshielded)



UJ5T568S
(Shielded)

Network Rating: Category 5E
Color: Black or Silver
Gold Plating: 50 microinches
Flammability Rating: 94V-0



PR175UT568



PR35UT568



PR175C6-16



PR35C6-32

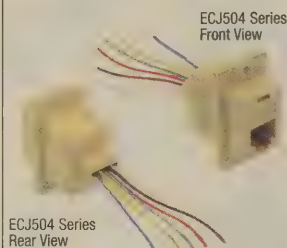


How to terminate a keystone style connector

See the free video tip and more at L-com.com/Videos/A10

ECF504 Series

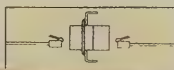
Network Rating: Category 3
Color: Ivory
Gold Plating: 30 microinches
Flammability Rating: 94V-0



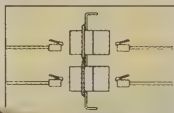
ECJ504 Series
Color: Ivory
Gold Plating: 30 microinches
Flammability Rating: 94V-0

ECF504B Series

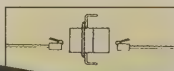
Network Rating: Category 3
Color: Black
Gold Plating: 50 microinches
Flammability Rating: 94V-0



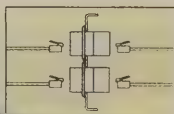
PR175F504-6S



PR35F504-6S



PR175F504B-4S



PR35F504B-4S

Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
RoHS Deluxe Panel Mounted Modular Couplers, 30 Microinches Gold, Ivory Color							
These straight and cross wired modular couplers are available exclusively from L-com. Eight different configurations all fit into the same 0.675 x 0.900 inch rectangular opening. Wire contacts have 30 microinch gold plating for multiple insertions. Plastic is 94V-0 rated. Color: Ivory. Flange accepts #4 or #5 mounting screws to be purchased separately. Category 3 rated.							
ECF504-4C	Modular Coupler, RJ11 (6x4), Crossed, 30µ	Ivory	3.75	3.68	3.53	3.30	2.81
ECF504-6C	Modular Coupler, RJ12 (6x6), Crossed, 30µ	Ivory	3.95	3.87	3.71	3.48	2.96
ECF504-6CMJ	Modular Coupler, MMJ (6x6), Crossed, 30µ	Ivory	3.95	3.87	3.71	3.48	2.96
ECF504-8C	Modular Coupler, RJ45 (8x8), Crossed, 30µ	Ivory	4.95	4.85	4.65	4.36	3.71
ECF504-4S	Modular Coupler, RJ11 (6x4), Straight, 30µ	Ivory	3.75	3.68	3.53	3.30	2.81
ECF504-6S	Modular Coupler, RJ12 (6x6), Straight, 30µ	Ivory	3.95	3.87	3.71	3.48	2.96
ECF504-6SMJ	Modular Coupler, MMJ (6x6), Straight, 30µ	Ivory	3.95	3.87	3.71	3.48	2.96
ECF504-8SK	Modular Coupler, RJ45 (8x8), Straight, 30µ	Ivory	4.95	4.85	4.65	4.36	3.71
ECF440	Machine Screws, 4-40 x 5/16", Pkg/100		4.35	4.00	3.65	3.31	2.96

RoHS Deluxe Panel Mounted Modular Jacks - 10" Wire Leads, 30 Microinches Gold, Ivory Color

One difficulty in using modular jacks is the mounting problem on a panel. L-com's solution to this problem is providing a flange that mounts with two screws in a 0.675" x 0.900" rectangular opening. Choice of RJ11/12 (6x6) or RJ45 (8x8K) usable with keyed or non-keyed plugs. Custom versions of other jack types considered in quantities of 500/up. Mounting screws must be purchased separately.

ECJ504-6	Modular Panel Jack, RJ12 (6x6) / Wires, 30µ	Ivory	3.95	3.87	3.71	3.48	2.96
ECJ504-8	Modular Panel Jack, RJ45K (8x8K) / Wires, 30µ	Ivory	4.29	4.20	4.03	3.78	3.22
ECF440	Machine Screws, 4-40 x 5/16", Pkg/100		4.35	4.00	3.65	3.31	2.96

RoHS Deluxe Panel Mounted Couplers, 50 Microinches Gold, Black Color

These couplers are similar to the ECF504 Series with two changes. The molding has been changed to a Black color for applications when Ivory is not wanted. Also, the contacts have 50 microinches of gold for superior mating with modular plugs. Mounting screws must be purchased separately. Category 3 rated.

ECF504B-4S	Modular Coupler, RJ11 (6x4), Straight, 50µ	Black	3.75	3.68	3.53	3.30	2.81
ECF504B-6S	Modular Coupler, RJ12 (6x6), Straight, 50µ	Black	3.95	3.87	3.71	3.48	2.96
ECF504B-8SK	Modular Coupler, RJ45K (8x8K), Straight, 50µ	Black	4.95	4.85	4.65	4.36	3.71
ECF440	Machine Screws, 4-40 x 5/16", Pkg/100		4.35	4.00	3.65	3.31	2.96

RoHS 19" Patch Panels - Equipped with 16 or 32 ECF504 Series Modular Couplers

These 19" patch panels utilize the ECF504 series couplers. For your convenience, two panel heights are offered; 1.75" with 16 modular adapters or 3.5" with 32 modular adapters. Panel legend is 1-16 or 1-32. Color: Bone. Available with straight-thru wiring.

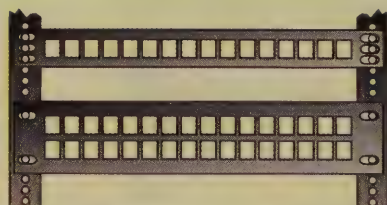
PR175F504-6S	1.75" 16 Port Panel RJ12 (6x6), Straight-Thru	Bone	79.95	73.55	67.16	60.76	CALL
PR175F504-8SK	1.75" 16 Port Panel RJ45 (8x8), Straight, Keyed	Bone	89.95	82.75	75.56	68.36	CALL
PR35F504-6S	3.50" 32 Port Panel RJ12 (6x6), Straight-Thru	Bone	119.95	110.35	100.76	91.16	CALL
PR35F504-8SK	3.50" 32 Port Panel RJ45 (8x8), Straight, Keyed	Bone	139.95	128.75	117.56	106.36	CALL

RoHS 19" Modular Patch Panels - Equipped with 16 or 32 ECF504B Modular Couplers

These panels utilize the ECF504B couplers with 50 microinch plating. 16 and 32 port available. Straight thru pinned only. Color: Black.

PR175F504B-4S	1.75" 16 Port Panel RJ11 (6x4), Straight-Thru	Black	69.95	64.35	58.76	53.16	CALL
PR175F504B-6S	1.75" 16 Port Panel RJ12 (6x6), Straight-Thru	Black	79.95	73.55	67.16	60.76	CALL
PR175F504B-8SK	1.75" 16 Port Panel RJ45 (8x8), Straight, Keyed	Black	89.95	82.75	75.56	68.36	CALL
PR35F504B-4S	3.50" 32 Port Panel RJ11 (6x4), Straight-Thru	Black	129.95	119.55	109.16	98.76	CALL
PR35F504B-6S	3.50" 32 Port Panel RJ12 (6x6), Straight-Thru	Black	139.95	128.75	117.56	106.36	CALL
PR35F504B-8SK	3.50" 32 Port Panel RJ45 (8x8), Straight, Keyed	Black	169.95	156.35	142.76	129.16	CALL

How Rack Spaces and Sizes are Measured



Racks are a great way to neaten up wiring closets and labs. Network equipment and rack panels usually come in 1.75", 3.5" and 5.25" heights. (1, 2 and 3 rack spaces).



Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
RoHS ECF504-UAB	USB Type A - Type B Coupler	Ivory	5.95	5.83	5.59	5.24	4.46
ECF504B-UAB	USB Type A - Type B Coupler	Black	5.95	5.83	5.59	5.24	4.46
ECF504-UABS	USB Type A - Type B Coupler, Shielded	Silver	6.95	6.81	6.53	6.12	5.21
ECF504-BAS	USB Type B - Type A Coupler, Shielded	Silver	6.95	6.81	6.53	6.12	5.21
ECF440	Machine Screws, 4-40 x 5/16", Pkg/100		4.35	4.00	3.65	3.31	2.96

RoHS USB Type A and B Panel Couplers with 10" Wire Leads, 30 Microinches Gold, Black or Ivory

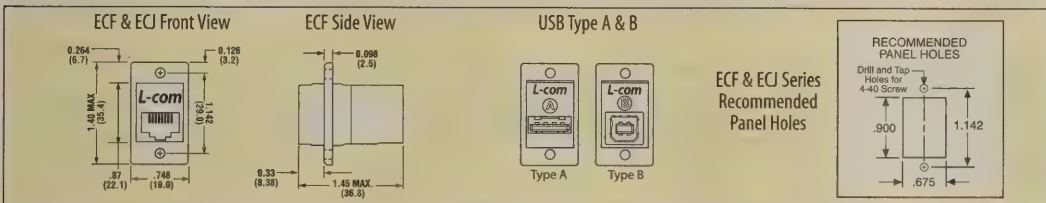
Similar to our USB coupler except with wire leads in the rear to connect to equipment. Choose USB Type A or B jacks in Black or Ivory color. Wires are 20 AWG (2 power) and 24 AWG (2 signal) stranded wires with additional drain to shield. Recommended 4-40 mounting screws must be purchased separately.

ECJ504-UA	USB Type A Jack, 10" Leads	Ivory	5.25	5.15	4.93	4.62	3.94
ECJ504-UB	USB Type B Jack, 10" Leads	Ivory	5.25	5.15	4.93	4.62	3.94
ECJ504B-UA	USB Type A Jack, 10" Leads	Black	5.25	5.15	4.93	4.62	3.94
ECJ504B-UB	USB Type B Jack, 10" Leads	Black	5.25	5.15	4.93	4.62	3.94
ECF440	Machine Screws, 4-40 x 5/16", Pkg/100		4.35	4.00	3.65	3.31	2.96

RoHS IEEE-1394 Firewire Shielded Panel Mount Couplers, Type 1 Connectors

This coupler provides a practical and cost effective way to feed Firewire cables through a panel or enclosure. A unique mounting flange makes these units usable in virtually any panel thickness. Features two Type 1 (6 position) female connectors and metal housing. Recommended 4-40 mounting screws must be purchased separately.

ECF504-94MS	IEEE-1394 Firewire Shielded Coupler, Type 1 Connectors	Silver	8.95	8.77	8.41	7.88	6.71
ECF440	Machine Screws, 4-40 x 5/16", Pkg/100		4.35	4.00	3.65	3.31	2.96



RoHS 19" Panels with 16 or 32 Openings - Pre-Tapped To Accept Any ECF/ECJ504 Adapter

Our 16 and 32 port unpopulated panels are available for those who wish to create their own modular rack panels. Compatible with any of the ECF504 or ECJ504 series couplers on pages 42, 44 and 45. Bone and Black color; pre-tapped screw holes work with 4-40 screws (L-com #ECF440).

PR175F504	1.75" Blank Rack Panel accepts 16 Couplers	Bone	34.95	34.25	33.55	32.85	32.15
PR35F504	3.50" Blank Rack Panel accepts 32 Couplers	Bone	39.95	39.15	38.35	37.55	36.75
PR175F504B	1.75" Blank Rack Panel accepts 16 Couplers	Black	34.95	34.25	33.55	32.85	32.15
PR35F504B	3.50" Blank Rack Panel accepts 32 Couplers	Black	39.95	39.15	38.35	37.55	36.75

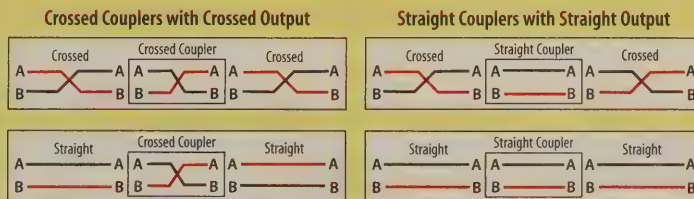


Tip

What is the difference between straight-thru and cross pinning?

Straight-thru means each contact is straight pinned to its respective contact (1-1, 2-2, 3-3, etc.). Crossed pinning means contacts are pinned through to the opposite contact. Example: On an 8 position RJ45: 1-8, 2-7, 3-6, etc.

When using a coupler between two patch cords it is important to choose the correct type. As the diagrams illustrate, if the desired pinning from end to end is crossed then the coupler and cables must be crossed. For straight pinning, all cables and couplers must be straight-thru type.



19" USB Patch Panels - Equipped with 16 or 32 USB A/B Adapters

An L-com exclusive, four 19" rack panels with 16 or 32 shielded or unshielded USB A/B couplers. Panel heights are 1.75" or 3.5", color is Black with White legends 1-16 or 1-32 imprinted below the couplers. Couplers are Black or Silver (shielded). Additional coupler detail can be found on page 45.

PR175F504-UAB	1.75" 16 Port Panel USB A/B	Black	119.95	110.35	100.76	91.16	CALL
PR35F504-UAB	3.50" 32 Port Panel USB A/B	Black	199.95	183.95	167.96	151.96	CALL
PR175F504-UABS	1.75" 16 Port Panel USB A/B, Shielded	Black	129.95	119.55	109.16	98.76	CALL
PR35F504-UABS	3.50" 32 Port Panel USB A/B, Shielded	Black	229.95	211.55	193.16	174.76	CALL

3.5" x 19" Firewire (IEEE-1394) Coupler Panel - Equipped with 32 Shielded Firewire Type 1/1 Couplers

These exclusive rack panels are populated with 32 of our ECF504-94MS fully shielded Firewire couplers featuring Type 1 (6 position) female connectors on each end. Panel is Black with White legend printed 1-32. Panel size is 3.5" x 19".

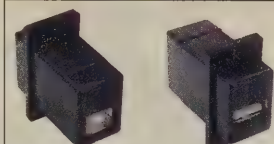
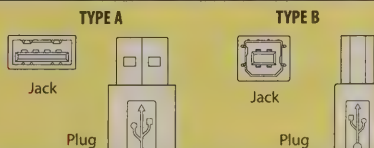
PR35F504-94MS	3.50" 32 Port Firewire (IEEE-1394) Panel, Shielded		279.95	257.55	235.16	212.76	CALL
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Tip

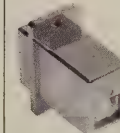
What is the difference between a USB Type A or B connector?

Type A jacks are found on the host and on hubs.
Type B jacks are found on peripherals.

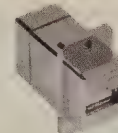


ECF504B-UAB
Rear View

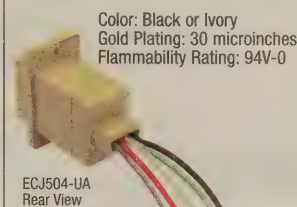
ECF504B-UAB
Front View



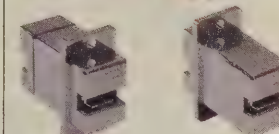
ECF504-UABS
Rear View



ECF504-UABS
Front View

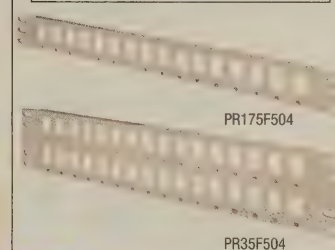


ECJ504-UA
Rear View



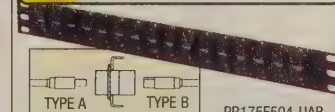
ECF504-94MS
(Front view)

ECF504-94MS
(Rear view)



PR175F504

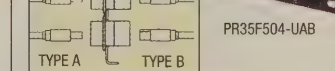
PR35F504



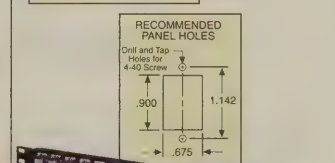
PR175F504-UAB



PR35F504-UAB



PR35F504-UABS



PR35F504-94MS



PR35F504-94MS

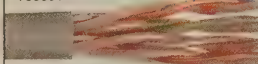


For more useful information go to...
www.L-com.com/Resources

L-com Global Connectivity

Category 6

TC5001



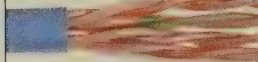
- 24 AWG Solid Conductors
- EIA568 Color-Coded with a PVC Jacket
- Use with Hi-Speed Gigabit Ethernet

TC5050



- 24 AWG Stranded Conductor for Flexibility
- EIA568 Color-Coded with a PVC Jacket
- Use with Hi-Speed Gigabit Ethernet

TPC2756



- 24 AWG Solid Conductors
- EIA568 Color-Coded with a Plenum Jacket
- Use with Hi-Speed Gigabit Ethernet

TFC6101



- 26 AWG Stranded Conductors
- EIA568 Color-Coded with a PVC Jacket
- Use with Hi-Speed Gigabit Ethernet

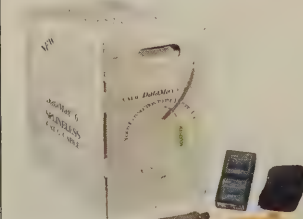
TFCLS6001



- 26 AWG Stranded Conductors
- EIA568 Color-Coded with an LSZH Jacket
- Use with Hi-Speed Gigabit Ethernet



TCK5050A



TCK5001A

Item # Description Color 1-9 10-24 25-99 100-249 250-499

RoHS Category 6 to 250 MHz UTP Bulk Cable - Maximum Performance for LAN Environments

Future proof your installation with the latest in UTP technology. The Category 6 standard addresses the need for improving the performance of twisted pair cabling to support emerging hi-speed applications. Transmission parameter requirements exceed Category 5E and are specified up to 250 MHz.

FREQUENCY	NEAR END CROSSTALK (NEXT)	POWER SUM NEXT LOSS	EQUAL LEVEL FAR END CROSSTALK (ELFEXT)	POWER SUM ELFEXT	INSERTION LOSS	ATTENUATION	IMPEDANCE
4 MHz	65.3 db	63.3 db	55.8 db	52.8 db	3.8 db	3.8 db	100 Ohms ± 15 Ohms
10 MHz	59.3 db	57.3 db	47.8 db	44.8 db	6.0 db	6.0 db	100 Ohms ± 15 Ohms
20 MHz	54.8 db	52.8 db	41.8 db	38.8 db	8.5 db	8.6 db	100 Ohms ± 15 Ohms
100 MHz	44.3 db	42.3 db	27.8 db	24.8 db	19.8 db	20.2 db	100 Ohms ± 15 Ohms
250 MHz	38.3 db	36.3 db	19.8 db	16.8 db	32.8 db	33.8 db	100 Ohms ± 15 Ohms

This table refers to the electrical specifications of TPC2756, other Category 6 cabling is similar.

TC5001	Category 6, PVC, 1,000 ft Box, 4 Pr. Solid	Gray	159.95	156.75	153.55	150.35	147.15
TC5050	Category 6, PVC, 1,000 ft Reel, 4 Pr. Stranded	Blue	229.95	225.35	220.75	216.15	211.55
TPC2756	Category 6, Plenum, 1,000 ft Reel, 4 Pr. Solid	Blue	399.00	391.02	383.04	375.06	367.08

Category 6 Hi-Speed Shielded Network Bulk Cable

For protection against EMI/RFI interference L-com's high performance Category 6 shielded bulk cable is the perfect choice. Designed for today's hi-speed gigabit networks, this Category 6 cable from L-com is made to outperform all others. With a 100% foil shield covering 4-pair 26 AWG stranded conductors, your data is protected from interference. Designed to exceed EIA568B standards, this cable will easily handle gigabit Ethernet applications. Contact us today for all of your network cabling needs.

TFC6101	Category 6 PVC, Shielded, 1,000 ft Reel, 4 Pr. Stranded	Lt. Gray	379.00	371.42	363.84	356.26	348.68
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RoHS Category 6 Low Smoke Zero Halogen Shielded Bulk Cable

For protection against EMI/RFI interference L-com's high performance Category 6 shielded LSZH bulk cable is the perfect choice. Designed for environments where PVC's combustive toxicity is restricted, L-com's shielded Low Smoke Zero Halogen (LSZH) Ethernet cable provides the ideal alternative. Featuring an aluminized polyester shielded cable with drain wire, this cable is designed to protect from EMI/RFI while maintaining high performance data transmission characteristics. Ensure the protection of your investment by utilizing this L-com exclusive LSZH cable. Talk to us about your project today!

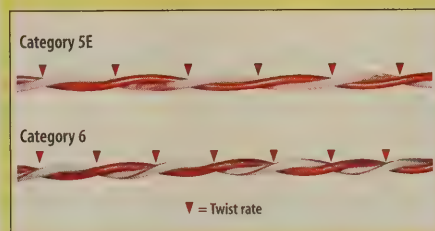
TFCLS6001	Category 6 LSZH, Shielded, 1,000 ft Reel, 4 Pr. Stranded	Lt. Gray	499.00	489.02	479.04	469.06	459.08
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Tip

What is the difference between Category 5E & Category 6 100 Ohm UTP?

The new Category 6 Standard adopted in mid 2002 extended key parameters over 5E specifications. The additional headroom is intended to provide quality transmission at higher data rates required by emerging applications. As the chart indicates, the most prominent difference is the frequency at which the key parameters are measured. The jump from 100 to 250 Mhz places a great deal of emphasis on component quality as well as installation techniques. This improvement is commonly noticed by the increased pair twisting and staggering of twisted pairs.



	Category 5E	Category 6
Frequency	100 MHz	250MHz
Attenuation	22db	19.8db/100M @ 100 MHz 32.8db/100M @ 250 MHz
Return Loss	19db	19db @ 100 MHz 15.6db @ 250 MHz
Delay Skew	45ns	45ns
Near End Crosstalk (NEXT)	35.3db	44.3db @ 100 MHz 38.3db @ 250 MHz
Power Sum Near End Crosstalk (PS-NEXT)	32.3db	42.3db @ 100 MHz 36.3db @ 250 MHz
Equal Level Far End Crosstalk (ELFEXT)	23.8db	27.8db @ 100 MHz 19.8db @ 250 MHz
Power Sum Equal Level Far end Crosstalk (PS-ELFEXT)	20.8db	24.8db @ 100 MHz 16.8db @ 250 MHz

Category 6 Patch Cord Kit

Make your own patch cables with one of L-com's complete patch cord kits. Each kit includes the correct tools, connectors and cable required to make your own patch cables. Each kit contains one spool of Category 6 rated 4-pair cable, one cable stripping tool, 50 RJ45 modular plugs, one crimp tool and an L-com tester. Custom build your own patch cables to the specific length you need.

TCK5050A	Category 6 Patch Cord Kit	349.95	335.95	321.95	307.96	CALL
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Category 6 Network Installation Kit

Get your own network cabling started with one of L-com's complete cable network installation kits. Each kit includes the bulk cable, tool and tester needed to set up in-wall network cabling. Each kit contains one spool of Category 6 rated 4-pair cable, one cable stripping tool, one punch tool and an L-com tester.

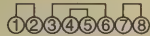
TCK5001A	Category 6 Network Installation Kit	229.95	220.75	211.55	202.36	CALL
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Shielded (FTP) 5E to 100 MHz Bulk Cable - Help Suppress Noise in Networks - 2 and 4 Pair

Screened (shielded) twisted pair is ideal for use in environments where EMI/RFI is a concern. A foil wrap with a drain wire protects signals from external noise. Available in stranded 26 AWG conductor with PVC and Low Smoke Zero Halogen jackets. A double shielded (foil + braid) 24 AWG solid is now available for use where extra noise protection is required. Plenum version is 24 AWG solid conductor. Sold in 1000' spools.

Category 5E Bulk Cable

EIA568



Twisted Pair Pinning: 1 & 2, 3 & 6, 4 & 5, 7 & 8.

Category 5E Stranded 4 Pair Cable



Four 26 AWG Stranded Pairs

Aluminum Mylar Shield

PVC Jacket

Drain Wire

Item #	Description	Reel	Color	1-9	10-24	25-99	100-249
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FREQUENCY	NEAR END CROSS TALK (NEXT)	ATTENUATION	CAPACITANCE	IMPEDANCE
4 MHz	53 db min.	13 db/330 ft max.	14 pF/ft Max	100 Ohms ± 15 Ohms
10 MHz	47 db min.	20 db/330 ft max.	14 pF/ft Max	100 Ohms ± 15 Ohms
20 MHz	42 db min.	28 db/330 ft max.	14 pF/ft Max	100 Ohms ± 15 Ohms
100 MHz	32 db min.	67 db/330 ft max.	14 pF/ft Max	100 Ohms ± 15 Ohms

This table refers to the electrical specifications of TFC2648, other Screened Category 5E cabling is similar. TFC2002, TFC2004, TFC2006, TFDL2004, TFCLS2004 and TFCHF2004 cables are 26 AWG.

RoHS Category 5E PVC Bulk Cable with Foil Shield

TFC2002	Category 5E Shielded, 2-pr. Stranded PVC 26 AWG	1,000 ft Reel	Beige	199.00	195.02	191.04	187.06
TFC2004	Category 5E Shielded, 4-pr. Stranded PVC 26 AWG	1,000 ft Reel	Lt. Gray	249.00	244.02	239.04	234.06
TFC2006	Category 5E Shielded, 4-pr. Stranded PVC 26 AWG	1,000 ft Reel	Red	249.00	244.02	239.04	234.06
TFC2900	Category 5E Shielded, 4-pr. Stranded PVC 26 AWG	1,000 ft Reel	Black	249.00	244.02	239.04	234.06
TFC2901	Category 5E Shielded, 4-pr. Stranded PVC 26 AWG	1,000 ft Reel	Brown	249.00	244.02	239.04	234.06
TFC2903	Category 5E Shielded, 4-pr. Stranded PVC 26 AWG	1,000 ft Reel	Orange	249.00	244.02	239.04	234.06
TFC2904	Category 5E Shielded, 4-pr. Stranded PVC 26 AWG	1,000 ft Reel	Yellow	249.00	244.02	239.04	234.06
TFC2905	Category 5E Shielded, 4-pr. Stranded PVC 26 AWG	1,000 ft Reel	Green	249.00	244.02	239.04	234.06
TFC2906	Category 5E Shielded, 4-pr. Stranded PVC 26 AWG	1,000 ft Reel	Blue	249.00	244.02	239.04	234.06
TFC2907	Category 5E Shielded, 4-pr. Stranded PVC 26 AWG	1,000 ft Reel	Violet	249.00	244.02	239.04	234.06
TFC2908	Category 5E Shielded, 4-pr. Stranded PVC 26 AWG	1,000 ft Reel	Gray	249.00	244.02	239.04	234.06
TFC2909	Category 5E Shielded, 4-pr. Stranded PVC 26 AWG	1,000 ft Reel	White	249.00	244.02	239.04	234.06

RoHS Category 5E Plenum Bulk Cable with Foil Shield

TFPC2648	Category 5E, 4-pr. Solid Plenum	1,000 ft Reel	Blue	499.00	489.02	479.04	469.06
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RoHS Category 5E PVC Bulk Cable with Foil + Braid Shielding

TFSC2004	Category 5E Shielded, 4-pr. Solid PVC 24 AWG	1,000 ft Reel	Ivory	399.00	391.02	383.04	375.06
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RoHS Category 5E Low Smoke Zero Halogen Bulk Cable with Foil Shield

TFCLS2004	Category 5E Shielded, 4-pr. Stranded LSZH	1,000 ft Reel	Black	429.00	420.42	411.84	403.26
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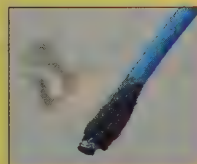
RoHS Category 5E Low Smoke Zero Halogen Bulk Cable with Foil + Braid Shielding

TFDL2004	Category 5E Shielded, 4-pr. Stranded LSZH 26 AWG	1,000 ft Reel	Lt. Gray	499.00	479.04	459.08	439.12
TFDL2104	Category 5E Shielded, 4-pr. Solid LSZH 24 AWG	1,000 ft Reel	Lt. Gray	479.00	459.84	440.68	421.52

Category 5E Shielded Continuous Hi-Flex Oil Resistant Bulk Cable

Designed for environments where ordinary cables fail, this exclusive ultra flexible Category 5E shielded bulk cable from L-com is built to take a beating. With a Halogen-Free PUR jacket, this Hi-Flex cable will not breakdown when exposed to oil based lubricants making it ideal for robotic control systems on the factory floor. With a braided shield, EMI/RFI interference is minimized. Get the cable that is designed for your tough factory environment; install the L-com Hi-Flex shielded cable today.

TFCHF2004	Category 5E Shielded, 4-pr. Stranded Hi-Flex 26 AWG	1,000 ft Reel	Green	3795.00	3719.10	3643.20	3567.30
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Understanding cable flammability ratings**Plenum (CMP) Rated Cable**

Complies with NFPA-262 and UL-910. It is the only cable allowed in spaces defined as air plenums such as raised flooring systems and air handling ducts. Plenum cables must self extinguish and not re-ignite.

**Low Smoke Zero Halogen (LSZH) Rated Cable**

Used in shipboard applications and computer networking rooms where toxic or acidic smoke and fumes can injure people and/or equipment. Examples of Halogens include Fluorine, Chlorine, Bromine and Iodine. These materials when burned produce acidic smoke that can cause harm. These cables will self extinguish.

**Riser (CMR) Rated Cable**

Complies with UL-1666. Defined for usage in vertical tray applications such as cable runs between floors through cable risers or in elevator shafts. These cables must self extinguish.

**General Purpose (CM, CMG, CMX) Cable**

Complies with UL-1581 testing. They will burn and partially self extinguish. Not for use between building floors or in air plenum spaces. Often these cables are used for workstation cables and patch cords.

**See The Video**
www.L-com.com/Videos/A20
Screened Category 5E

TFC2002

TFC2004

TFC2906

TFC2900

TFC2901

TFC2903

TFC2904

TFC2905

TFC2906

TFC2907

TFC2908

TFC2909

Did you know...

L-com stocks Plenum, LSZH and lead free PVC modular cables for same day shipping?

TFPC2648

TFCLS2004

TFSC2004, TFDL2004, TFDL2104

TFCHF2004

**What is the difference in flammability ratings?**

See the free video tip and more at L-com.com/Videos/A20

L-com Global Connectivity

Category 5E

TC2379

TC2380

TC2581

TPC2567

TC58141

TPC58142

Outdoor Category 5E

TOAC2004

TOBC2004

TCK2382A

TCK2379A

TCK2347A

Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
RoHS Category 5E to 100 MHz - Hi-Speed UTP for LAN and Emerging Applications							
Unshielded twisted pair has become the cabling of choice in voice and data applications. Low cost and easy installation are driving popularity. As new higher speed applications emerge, higher performance from cabling systems is required. Category 5E performance requirements add margin over existing Category 5 specifications to support more robust, bi-directional signaling schemes over all four pairs. Applications supported include: 10Base-T, 100Base-T, 100Base-TX, 1000Base-T, 100BaseVG-Any-LAN, 155Mbps ATM and a number of emerging multimedia applications.							
FREQUENCY	NEAR END CROSSTALK (NEXT)	POWER SUM NEXT LOSS	EQUAL LEVEL FAR END CROSSTALK (EFEXT)	POWER SUM EFEXT	RETURN LOSS	ATTENUATION	IMPEDANCE
4 MHz	56.3 db	53.3 db	51.7 db	48.7 db	23 db	4.1 db	100 Ohms ± 15 Ohms
10 MHz	50.3 db	47.3 db	43.8 db	40.8 db	25 db	6.5 db	100 Ohms ± 15 Ohms
20 MHz	45.8 db	42.8 db	37.7 db	34.7 db	25 db	9.3 db	100 Ohms ± 15 Ohms
100 MHz	35.3 db	32.3 db	23.8 db	20.8 db	20.1 db	22 db	100 Ohms ± 15 Ohms

This table refers to the electrical specifications of TC2379, other Category 5E cabling is similar.

TC2379	Category 5E, PVC Bulk, 1,000 ft Box, 4 Pr. Solid	Beige	89.00	87.22	85.44	83.66	81.88
TC2737	Category 5E, PVC Bulk, 1,000 ft Box, 4 Pr. Solid	Gray	89.00	87.22	85.44	83.66	81.88
TC58141	Category 5E, PVC Bulk, 1,000 ft Reel, 25 Pr. Solid	Gray	1895.95	1858.03	1820.11	1782.19	1744.27
TC2380	Category 5E, PVC Bulk, 1,000 ft Reel, 2 Pr. Stranded	Beige	129.00	126.42	123.84	121.26	118.68
TC2382	Category 5E, PVC Bulk, 1,000 ft Reel, 4 Pr. Stranded	Beige	159.00	155.82	152.64	149.46	146.28
TC2581	Category 5E, PVC Bulk, 1,000 ft Reel, 4 Pr. Stranded	Yellow	159.00	155.82	152.64	149.46	146.28
TC2589	Category 5E, PVC Bulk, 1,000 ft Reel, 4 Pr. Stranded	Red	159.00	155.82	152.64	149.46	146.28
TC2590	Category 5E, PVC Bulk, 1,000 ft Reel, 4 Pr. Stranded	Green	159.00	155.82	152.64	149.46	146.28
TC2599	Category 5E, PVC Bulk, 1,000 ft Reel, 4 Pr. Stranded	Blue	159.00	155.82	152.64	149.46	146.28
TPC2347	Category 5E, Plenum Bulk, 1,000 ft Box, 4 Pr. Solid	White	219.00	214.62	210.24	205.86	201.48
TPC2567	Category 5E, Plenum Bulk, 1,000 ft Box, 4 Pr. Solid	Blue	219.00	214.62	210.24	205.86	201.48
TPC58142	Category 5E, Plenum Bulk, 1,000 ft Reel, 25 Pr. Solid	Gray	3999.00	3919.02	3839.04	3759.06	3679.08

RoHS Category 5E Outdoor UV Resistant Gel-Filled Bulk Cable - Ethernet Grade Cable for Outdoor Usage

Protect Ethernet cable runs outside with L-com's outdoor Category 5E rated twisted pair cabling. The gel-filled jacket provides moisture protection when used in an outdoor environment. With the UV protected jacket, outdoor cable runs are protected from damage caused by sunlight exposure. The cable is EIA568 color-coded for compatibility with standard installations and features solid conductors for termination into standard IDC connectors. Order online today!

FREQUENCY	NEAR END CROSS TALK (NEXT)	ATTENUATION	CAPACITANCE	IMPEDANCE
4 MHz	53 dB min.	4.1 dB/330 ft max.	14 pF/ft Max	100 Ohms ± 15 Ohms
10 MHz	47 dB min.	6.5 dB/330 ft max.	14 pF/ft Max	100 Ohms ± 15 Ohms
20 MHz	42 dB min.	9.3 dB/330 ft max.	14 pF/ft Max	100 Ohms ± 15 Ohms
100 MHz	32 dB min.	22 dB/330 ft max.	14 pF/ft Max	100 Ohms ± 15 Ohms
TOAC2004	Cat. 5E, Outdoor Aerial/Duct, 4 Pr. Solid	1,000 ft Reel	Black	249.95 244.95 239.95 234.95
TOBC2004	Cat. 5E, Outdoor Direct Burial, 4 Pr. Solid	1,000 ft Reel	Black	449.95 440.95 431.95 422.95

Solid vs Stranded Center Conductors**See The Video**
www.l-com.com/Videos/A19

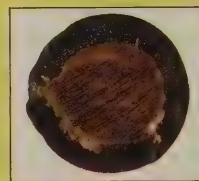
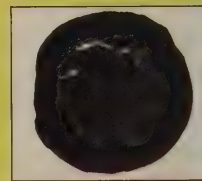
In network cabling there are two distinct types of cable that are offered. Each type of cable has advantages and disadvantages:

Stranded cable, used on workstation patch cords, is very flexible and easily bends but has a slightly higher attenuation factor.

Solid cable, used in horizontal runs, is stiff but offers better transmission performance.

Comparison Between Solid and Stranded Conductor Cable

	Solid Conductor Cable	Stranded Conductor Cable
Advantages	Lowest Cost Best Transmission Performance Terminates to IDC110 Blocks/Jacks	Very Flexible Easy Plug Termination
Disadvantages	Not Flexible Difficult to terminate to plug	Higher Cost Recommended Distance (<10m) Higher Attenuation Cannot connect to IDC 110 blocks

Solid Conductor Cable**Stranded Conductor Cable****L-com Modular Tool Kits - A Complete Solution for Cable Installers**

L-com's modular tool kits offer a complete package for cable installers from assembling patch cords to running new data/phone lines to the desktop. Each kit includes the tools required for termination and testing of network cabling.

RoHS Category 5E Patch Cord Kit

Make your own patch cables with one of L-com's complete patch cord kits. Each kit includes the correct tools, connectors and cable required to make your own patch cables. Each kit contains one spool of Category 5E rated 4-pair cable, one cable stripping tool, 100 RJ45 modular plugs, one crimp tool and an L-com tester. Custom build your own patch cables to the specific length you need.

TCK2382A	Category 5E Patch Cord Kit	249.95	239.95	229.95	219.96	CALL
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RoHS Category 5E Basic Network Installation Kit

Get your own network cabling started with one of L-com's complete cable installation kits. Each kit includes the bulk cable, tool and tester needed to set up in-wall network cabling. Each kit contains one spool of Category 5E rated 4-pair cable, one cable stripping tool, one punch tool and an L-com tester.

TCK2379A	Category 5E Basic Network Installation Kit	149.95	143.95	137.95	131.96	CALL
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RoHS Category 5E Plenum Network Installation Kit

Get your own network cabling started with one of L-com's complete cable installation kits. Each network installation kit comes with the bulk cable, tool and tester needed to set up in-wall network cabling. Each kit contains one spool of Category 5E rated 4-pair cable, one cable stripping tool, one punch tool and an L-com tester.

TCK2347A	Category 5E Plenum Network Installation Kit	279.95	268.75	257.55	246.36	CALL
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Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
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RoHS Category 3 to 16 MHz - Medium Speed UTP - 2, 3, 4, 12 and 50 Pair Solid Conductor

Twisted pair has become the cabling of choice in voice and data applications driven by low cost and ease of installation. All Category 3 listings comply with the EIA/TIA-568A Commercial Building Telecommunications Wiring Standard for horizontal Unshielded Twisted Pair (UTP) cable. The TC35 and TPC47 listings consist of 24 AWG solid conductors and PVC Jackets.

FREQUENCY	NEAR END CROSS TALK (NEXT)	ATTENUATION	CAPACITANCE	IMPEDANCE
1 MHz	41 db min.	2.6 db/330 ft max.	20 pF/ft Max	100 Ohms ± 15 Ohms
4 MHz	32 db min.	5.6 db/330 ft max.	20 pF/ft Max	100 Ohms ± 15 Ohms
10 MHz	26 db min.	9.7 db/330 ft max.	20 pF/ft Max	100 Ohms ± 15 Ohms
16 MHz	23 db min.	13.1 db/330 ft max.	20 pF/ft Max	100 Ohms ± 15 Ohms

This table refers to the electrical specifications of TC3559, other Category 3 cabling is similar.

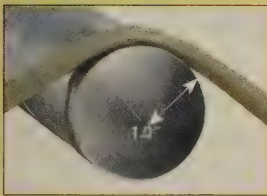
TC3559	Category 3, PVC Bulk, 1,000 ft Box, 2 Pr. Solid	Gray	59.95	58.75	57.55	56.35	55.15
TC3561	Category 3, PVC Bulk, 1,000 ft Box, 4 Pr. Solid	Gray	99.95	97.95	95.95	93.95	91.95
TC3567	Category 3, PVC Bulk, 1,000 ft Reel, 12 Pr. Solid	Gray	279.95	274.35	268.75	263.15	257.55
TC3570	Category 3, PVC Bulk, 1,000 ft Reel, 25 Pr. Solid	Gray	499.95	489.95	479.95	469.95	459.95
TPC4756	Category 3, Plenum Bulk, 1,000 ft Box, 2 Pr. Solid	Green	99.95	97.95	95.95	93.95	91.95
TPC4757	Category 3, Plenum Bulk, 1,000 ft Box, 3 Pr. Solid	Green	119.95	117.55	115.15	112.75	110.35
TPC4758	Category 3, Plenum Bulk, 1,000 ft Box, 4 Pr. Solid	Green	129.95	127.35	124.75	122.15	119.55

RoHS Flat Modular Cord - 26 AWG Stranded - 4, 6, 8 and 10 Conductors

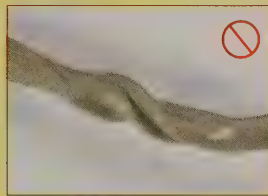
Flat modular (POTS) cable is suitable for voice and low speed data applications. Flat oval design permits fast stripping and crimping of modular plugs. Cable construction features flexible PVC jacketing. Available in popular 4, 6, 8 and 10 conductor counts. UL listed. Sold in 100', 500' and 1000' spools.

TDB4-100	4 Conductor Flat Modular Cord, PVC Bulk, 100 ft Coil	Gray	10.95	10.51	10.07	9.64	CALL
TDB6-100	6 Conductor Flat Modular Cord, PVC Bulk, 100 ft Coil	Gray	16.95	16.27	15.59	14.92	CALL
TDB8-100	8 Conductor Flat Modular Cord, PVC Bulk, 100 ft Coil	Gray	24.95	23.95	22.95	21.96	CALL
TDB4-500	4 Conductor Flat Modular Cord, PVC Bulk, 500 ft Reel	Gray	39.95	38.35	36.75	35.16	CALL
TDB6-500	6 Conductor Flat Modular Cord, PVC Bulk, 500 ft Reel	Gray	64.95	62.35	59.75	57.16	CALL
TDB8-500	8 Conductor Flat Modular Cord, PVC Bulk, 500 ft Reel	Gray	75.95	72.91	69.87	66.84	CALL
TDB4-1000	4 Conductor Flat Modular Cord, PVC Bulk, 1,000 ft Reel	Gray	74.95	71.95	68.95	65.96	CALL
TDB6-1000	6 Conductor Flat Modular Cord, PVC Bulk, 1,000 ft Reel	Gray	114.95	110.35	105.75	101.16	CALL
TDB8-1000	8 Conductor Flat Modular Cord, PVC Bulk, 1,000 ft Reel	Gray	164.95	158.35	151.75	145.16	CALL
TDB10-1000	10 Conductor Flat Modular Cord, PVC Bulk, 1,000 ft Reel	Gray	189.95	182.35	174.75	167.16	CALL

Tip UTP and STP installation guidelines



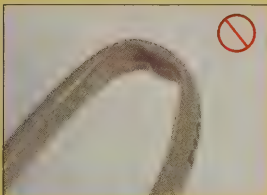
The minimum recommended bend radius for UTP is 1.0".



DO NOT twist the cable



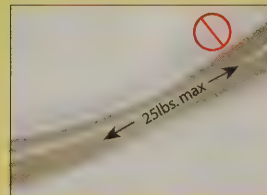
DO NOT overtighten wire ties



DO NOT bend cable greater than 90 degrees



DO NOT use a stapler for installations



DO NOT stretch or apply pull force greater than 25lbs.

Telephone Installers Basic Patch Cord Kit for RJ11/12 Connections

The telephone installers kit includes the basic items every installer requires. With 500 ft of 6-conductor flat silver satin cable, a crimp tool, 100 RJ12 connectors and a cable tester, installers will be able to custom make telephone connecting cables on-site to the exact length needed.

TCK-101	Telephone Installers Basic RJ11/12 Patch Cord Kit	99.95	91.95	83.96	75.96	CALL
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Telephone Installers Basic Patch Cord Kit for RJ45 Connections

The telephone installers kit includes the basic items every installer requires. With 500 ft of 8-conductor flat silver satin cable, a crimp tool, 100 RJ45 connectors and a cable tester, installers will be able to custom make telephone connecting cables on-site to the exact length needed.

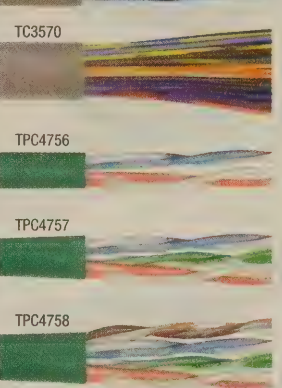
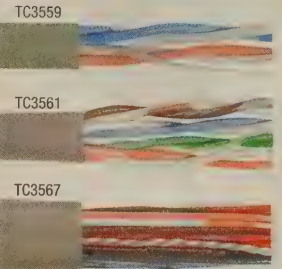
TCK-102	Telephone Installers Basic RJ45 Patch Cord Kit	129.95	119.55	109.16	98.76	CALL
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Telephone Installers Complete Patch Cord Kit for RJ11/12 and RJ45 Connections

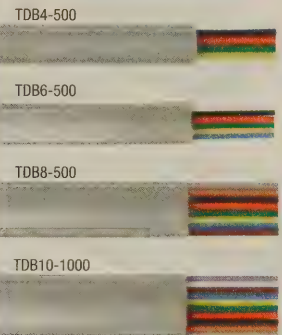
This installers kit includes the all the items required for building telephone patch cords in RJ11/12 and RJ45 configurations. With 500 ft of 6-conductor flat silver satin cable, 1,000 ft of 8-conductor flat silver satin cable, a crimp tool, 100 RJ12 connectors, 100 RJ45 connectors and a cable tester, installers will be able to custom make telephone connecting cables on-site to the exact length needed.

TCK-103	Telephone Installers Basic Patch Cord Kit for RJ11/12 and RJ45	339.95	312.75	285.56	258.36	CALL
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Category 3



Flat Modular Cord



For more useful information go to....
www.L-com.com/Resources



Item #	Description	Wiring	1-9	10-24	25-99	100-249
RoHS 25-Pair Telco Cables - Dual Terminated and Breakout (Octopus) Versions						
L-com offers a variety of straight-thru and breakout 25 pair telco trunk cables for voice and data networks. Cables come in Category 3 and 5 grades and utilize PVC jackets. Plenum grade and other configurations available by custom request. Category 5 cables utilize 180° or 90° connector ends.						
TDC350FF-5	Cat. 3, Telco Cable, 90° Female / 90° Female, 5.0 ft	A	31.95	29.39	26.84	CALL
TDC350FF-10	Cat. 3, Telco Cable, 90° Female / 90° Female, 10.0 ft	A	36.95	33.99	31.04	CALL
TDC350FF-15	Cat. 3, Telco Cable, 90° Female / 90° Female, 15.0 ft	A	42.95	39.51	36.08	CALL
TDC350FF-25	Cat. 3, Telco Cable, 90° Female / 90° Female, 25.0 ft	A	53.95	49.63	45.32	CALL
TDC350FF-50	Cat. 3, Telco Cable, 90° Female / 90° Female, 50.0 ft	A	80.95	74.47	68.00	CALL
TDC350FF-100	Cat. 3, Telco Cable, 90° Female / 90° Female, 100.0 ft	A	135.95	125.07	114.20	CALL
TDC350MM-5	Cat. 3, Telco Cable, 90° Male / 90° Male, 5.0 ft	A	31.95	29.39	26.84	CALL
TDC350MM-10	Cat. 3, Telco Cable, 90° Male / 90° Male, 10.0 ft	A	36.95	33.99	31.04	CALL
TDC350MM-15	Cat. 3, Telco Cable, 90° Male / 90° Male, 15.0 ft	A	42.95	39.51	36.08	CALL
TDC350MM-25	Cat. 3, Telco Cable, 90° Male / 90° Male, 25.0 ft	A	53.95	49.63	45.32	CALL
TDC350MM-50	Cat. 3, Telco Cable, 90° Male / 90° Male, 50.0 ft	A	80.95	74.47	68.00	CALL
TDC350MM-100	Cat. 3, Telco Cable, 90° Male / 90° Male, 100.0 ft	A	135.95	125.07	114.20	CALL
TDC550FF-5	Cat. 5, Telco Cable, 90° Female / 90° Female, 5.0 ft	A	69.50	65.33	61.16	56.99
TDC550FF-10	Cat. 5, Telco Cable, 90° Female / 90° Female, 10.0 ft	A	78.50	73.79	69.08	64.37
TDC550FF-15	Cat. 5, Telco Cable, 90° Female / 90° Female, 15.0 ft	A	87.50	82.25	77.00	71.75
TDC550FF-25	Cat. 5, Telco Cable, 90° Female / 90° Female, 25.0 ft	A	104.50	98.23	91.96	85.69
TDC550FF-50	Cat. 5, Telco Cable, 90° Female / 90° Female, 50.0 ft	A	148.50	139.59	130.68	121.77
TDC550FF-100	Cat. 5, Telco Cable, 90° Female / 90° Female, 100.0 ft	A	235.50	221.37	207.24	193.11
TDC550MM-5	Cat. 5, Telco Cable, 180° Male / 180° Male, 5.0 ft	A	69.50	65.33	61.16	56.99
TDC550MM-10	Cat. 5, Telco Cable, 180° Male / 180° Male, 10.0 ft	A	78.50	73.79	69.08	64.37
TDC550MM-15	Cat. 5, Telco Cable, 180° Male / 180° Male, 15.0 ft	A	87.50	82.25	77.00	71.75
TDC550MM-25	Cat. 5, Telco Cable, 180° Male / 180° Male, 25.0 ft	A	104.50	98.23	91.96	85.69
TDC550MM-50	Cat. 5, Telco Cable, 180° Male / 180° Male, 50.0 ft	A	148.50	139.59	130.68	121.77
TDC550MM-100	Cat. 5, Telco Cable, 180° Male / 180° Male, 100.0 ft	A	235.50	221.37	207.24	193.11

RoHS Category 3, Octopus Cables - Convert 25-Pair Telco to a Variety of Modular Cable Breakouts

This is a useful cable arrangement that allows conversion from a 90° 50 pin Telco connector to a variety of modular cables terminated with male RJ plugs having 2, 4, 6 or 8 active pins. All cables are three feet long. Wired per USOC Standard. Category 3 rated.

TDC50M62	Cat. 3 Telco Breakout Cable, Male Telco / 25 (6x2), 3.0 ft	B	89.95	84.55	79.16	73.76
TDC50M64	Cat. 3 Telco Breakout Cable, Male Telco / 12 (6x4), 3.0 ft	C	64.95	61.05	57.16	53.26
TDC50M66	Cat. 3 Telco Breakout Cable, Male Telco / 8 (6x6), 3.0 ft	D	59.95	56.35	52.76	49.16
TDC50M88	Cat. 3 Telco Breakout Cable, Male Telco / 6 (8x8), 3.0 ft	E	59.95	56.35	52.76	49.16
TDC50F62	Cat. 3 Telco Breakout Cable, Female Telco / 25 (6x2), 3.0 ft	B	89.95	84.55	79.16	73.76
TDC50F64	Cat. 3 Telco Breakout Cable, Female Telco / 12 (6x4), 3.0 ft	C	64.95	61.05	57.16	53.26
TDC50F66	Cat. 3 Telco Breakout Cable, Female Telco / 8 (6x6), 3.0 ft	D	59.95	56.35	52.76	49.16
TDC50F88	Cat. 3 Telco Breakout Cable, Female Telco / 6 (8x8), 3.0 ft	E	59.95	56.35	52.76	49.16

RoHS Category 5, Octopus Cables - Patch to Network Ethernet Equipment, etc.

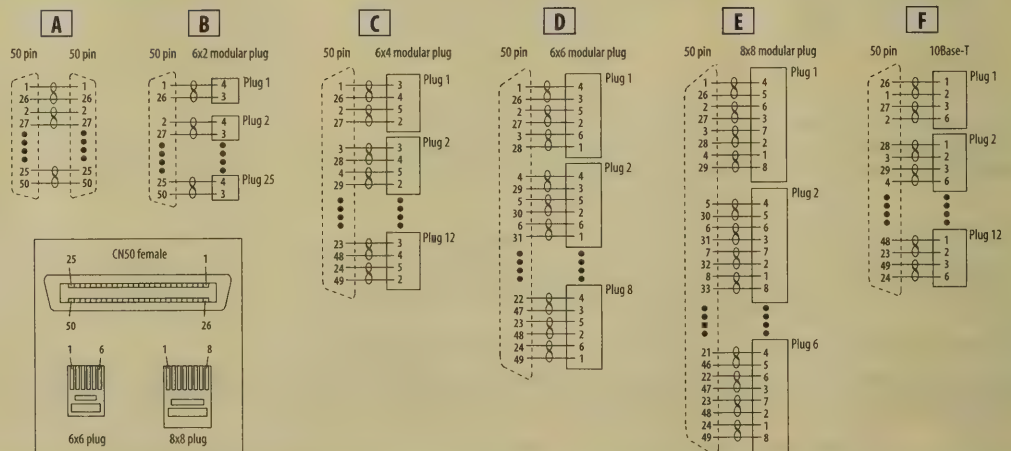
Category 5 octopus cables break out one 180° telco connector to 12 RJ45 plugs wired for Ethernet 10Base-T.

TRDC500M-3S	Cat. 5 Breakout Cable, Male Telco / 12 10Base-T (8x4), 3.0 ft	F	58.60	55.08	51.57	CALL
TRDC500M-6S	Cat. 5 Breakout Cable, Male Telco / 12 10Base-T (8x4), 6.0 ft	F	62.20	58.47	54.74	CALL
TRDC500M-10S	Cat. 5 Breakout Cable, Male Telco / 12 10Base-T (8x4), 10.0 ft	F	67.00	62.98	58.96	CALL

RoHS 50 Position Slim-Line Gender Changers - Mate with SCSI-1 and 50 Position Telco Connectors

DGC50F	50 Pin SCSI Gender Changer, Female / Female	10.95	9.86	8.76	7.66
DGC50M	50 Pin SCSI Gender Changer, Male / Male	10.95	9.86	8.76	7.66
DGC50MF	50 Pin SCSI Telco Socket Saver, Male / Female	10.95	9.86	8.76	7.66

Pinning Legend



Item #	Description	Wiring	1-9	10-24	25-99	100-249	250-499
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RoHS Harmonica Style Cluster Bars - An Efficient Way to Distribute Your 25 Pair Lines

Break out your 50 pin Telco terminated cabling by connecting to a harmonica style cluster bar. These units use one male or female 25 pair Telco connector as input and 6, 8 or 12 modular jacks as output. Two holes for screw mounting or 2-sided tape may be used. Connector has Hook and Loop hold-down straps to eliminate screw tightening. USOC and 10Base-T wiring only.

EC412M	Telco Harmonica 12 RJ11 (6x4) / 50 Pin Male	USOC	29.95	26.96	23.96	20.97	CALL
EC608M	Telco Harmonica 8 RJ12 (6x6) / 50 Pin Male	USOC	29.50	26.55	23.60	20.65	CALL
EC608MMJ	Telco Harmonica 8 MMJ (6x6) / 50 Pin Male	USOC	32.50	29.25	26.00	22.75	CALL
EC806M	Telco Harmonica 6 RJ45 (8x8) / 50 Pin Male	USOC	31.50	28.35	25.20	22.05	CALL
EC806MK	Telco Harmonica 6 RJ45 (8x8) / 50 Pin Male	USOC	31.50	28.35	25.20	22.05	CALL
E412M10BASE-T	Telco Harmonica 12 RJ45 (8x4) / 50 Pin Male	10Base-T	39.95	36.75	33.56	30.36	CALL
EC412F	Telco Harmonica 12 RJ11 (6x4) / 50 Pin Female	USOC	29.95	26.96	23.96	20.97	CALL
EC608F	Telco Harmonica 8 RJ12 (6x6) / 50 Pin Female	USOC	29.50	26.55	23.60	20.65	CALL
EC608FMJ	Telco Harmonica 8 MMJ (6x6) / 50 Pin Female	USOC	32.50	29.25	26.00	22.75	CALL
EC806F	Telco Harmonica 6 RJ45 (8x8) / 50 Pin Female	USOC	31.50	28.35	25.20	22.05	CALL
EC806FK	Telco Harmonica 6 RJ45 (8x8) / 50 Pin Female	USOC	31.50	28.35	25.20	22.05	CALL
E412F10BASE-T	Telco Harmonica 12 RJ45 (8x4) / 50 Pin Female	10Base-T	39.95	36.75	33.56	30.36	CALL

19" x 1.75" Modular Patch Panel - 2, 3, or 4 Harmonicas Mounted in Low Profile Panel

These exclusive 19" x 1.75" panels come loaded with 2, 3, or 4 harmonica cluster bars. Panels are steel construction for durability and have a shelf in back for cable mounting. Black, with White imprinting.

ECHL24-4M	1.75" Panel with 2 EC412M	USOC	99.95	97.95	93.95	87.96	74.96
ECHL24-6M	1.75" Panel with 3 EC608M	USOC	114.95	112.65	108.05	101.16	86.21
ECHL24-10BTM	1.75" Panel with 2 EC412M 10Base-T	10Base-T	119.95	117.55	112.75	105.56	89.96
ECHL24-4F	1.75" Panel with 2 EC412F	USOC	99.95	97.95	93.95	87.96	74.96
ECHL24-8F	1.75" Panel with 4 EC806F	USOC	139.95	137.15	131.55	123.16	104.96
ECHL24-10BTF	1.75" Panel with 2 EC412F 10Base-T	10Base-T	119.95	117.55	112.75	105.56	89.96

Harmonica Style Bridging Adapters - For RJ12 and RJ45 Modular Equipped Cables

Your choice of 6 or 12 port bridging adapters. Each of the RJ12 (6x6) or RJ45 (8x8) lines are all wired in parallel.

TDS1880	6 Way Bridging Adapter, RJ12 (6x6)	29.95	27.55	25.16	22.76	CALL
TDS2166	12 Way Bridging Adapter, RJ12 (6x6)	37.95	34.91	31.88	28.84	CALL
TDS1881	6 Way Bridging Adapter, RJ45 (8x8)	31.95	29.39	26.84	24.28	CALL
TDS2167	12 Way Bridging Adapter, RJ45 (8x8)	39.95	36.75	33.56	30.36	CALL

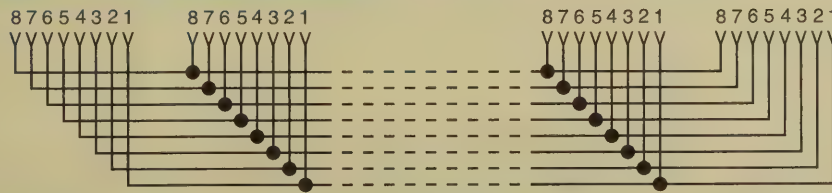
19" x 1.75" Modular Bridging Panels - Equipped with 6 or 12 Way Bridging Adapters

ECHL2166	1.75" Panel with 2-12 Way (6x6) Bridging Adapters	109.95	107.75	103.35	96.76	82.46
ECHL1881	1.75" Panel with 4-6 Way (8x8) Bridging Adapters	129.95	127.35	122.15	114.36	97.46
ECHL2167	1.75" Panel with 2-12 Way (8x8) Bridging Adapters	109.95	107.75	103.35	96.76	82.46

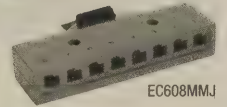
Wiring Diagram for RJ12 Bridging Adapter



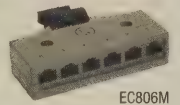
Wiring Diagram for RJ45 Bridging Adapter



EC412M



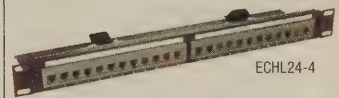
EC608MMJ



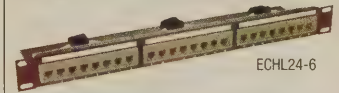
EC806M



E412F10BASE-T



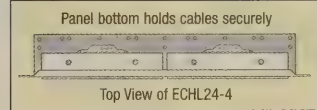
ECHL24-4



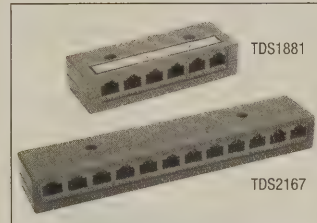
ECHL24-6



ECHL24-8

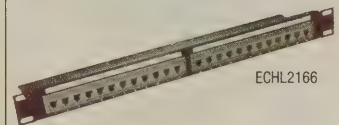


Top View of ECHL24-4

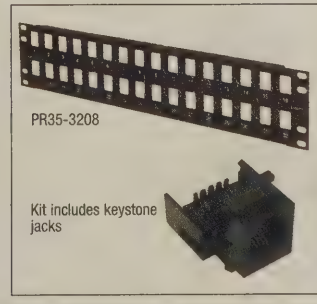


TDS1881

TDS2167



ECHL2166



PR35-3208

Kit includes keystone jacks

RoHS Voice Grade Keystone Jack and Panel Kit Assortment - At Significant Savings

These kits include a pre-punched 19" rack panel and appropriate number of keystone jacks to complete the assembly. Keystone jacks use insulation displacement contacts and each connector has 30 microinches of gold on jack mating surfaces. Panel color is Black. Keystone jacks are also available separately on pages 32-33.

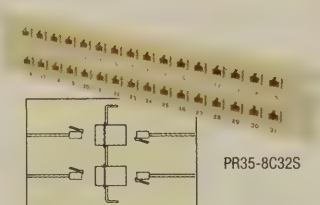
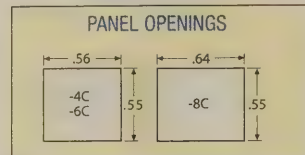
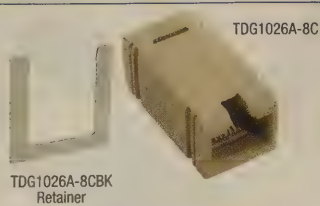
PR175-1606	1.75" x 19" Panel Kit with 16 RJ12 (6x6) Keystone Jacks	59.00	CALL	CALL	CALL	CALL
PR35-3206	3.50" x 19" Panel Kit with 32 RJ12 (6x6) Keystone Jacks	79.00	CALL	CALL	CALL	CALL
PR175-1608	1.75" x 19" Panel Kit with 16 RJ45 (8x8) Keystone Jacks	79.95	CALL	CALL	CALL	CALL
PR35-3208	3.50" x 19" Panel Kit with 32 RJ45 (8x8) Keystone Jacks	119.95	CALL	CALL	CALL	CALL



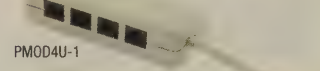
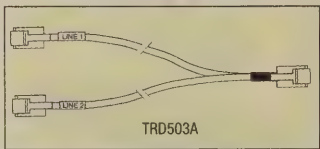
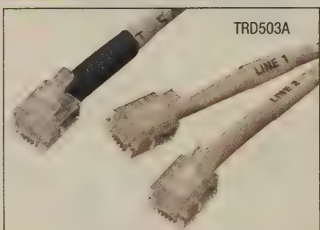
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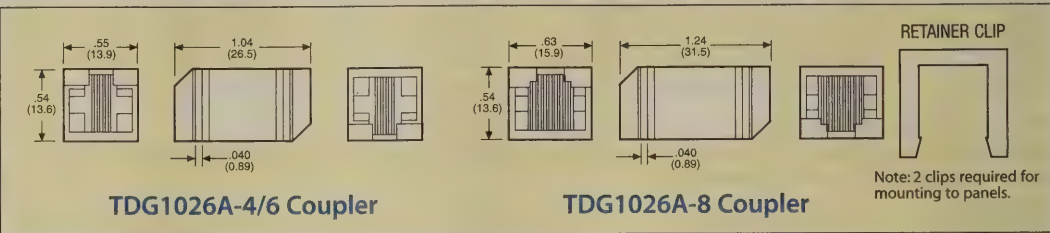
L-com.com/PressReleases



L-com Exclusive



Item #	Description	Wiring	1-9	10-24	25-99	100-249
RoHS Panel Mount Modular Couplers - Easy Wiring, No Screws Needed (Straight-thru)						
L-com has redesigned the traditional modular coupler by adding grooves and providing retainers so the coupler snap-fits into a rectangular hole. It's now possible to connect two similar modular cables on each side of a panel. Maximum panel thickness is .075". Wiring is straight-thru for data communication use. Two retainers are needed to mount one coupler at the maximum panel thickness. For thinner panels additional retainers may be stacked for snug fit (Retainer thickness: .02"). Retainers not supplied, must be ordered separately. Straight-thru maintains polarity.						
TDG1026A-4C	Panel Mounted Coupler, RJ11 (6x4)		2.95	2.71	2.48	2.24
TDG1026A-6C	Panel Mounted Coupler, RJ12 (6x6)		3.25	2.99	2.73	2.47
TDG1026A-8C	Panel Mounted Coupler, RJ45 (8x8)		3.65	3.36	3.07	2.77
TDG1026A-6CBK	Retainer for 4C or 6C Coupler, RJ11-RJ12		0.15	0.14	0.13	0.11
TDG1026A-8CBK	Retainer for 8C Coupler, RJ45		0.15	0.14	0.13	0.11



19" Modular Organizer Panels - Have 16 or 32 Straight-thru Cable Couplers

A very popular rack panel system that makes use of our basic TDG1026A couplers. Each panel will accept 16 or 32 modular plug equipped cables. Steel construction and finished in attractive Bone color.

PR175-8C16S	1.75" Panel, 16 RJ45 (8x8) Couplers, Straight-Thru	98.95	91.03	83.12	75.20
PR35-8C32S	3.50" Panel, 32 RJ45 (8x8) Couplers, Straight-Thru	164.95	151.75	138.56	125.36

Modular Y Cables - Great For Splitting a Modular Port Into Two Cable Paths

These assemblies are available in three lengths to simplify splitting the output of a modular jack to two plugs. All cabling is Category 5 rated 24 AWG stranded conductors with PVC jackets for flexibility. Assemblies maintain pairing. All measurements are in feet. **Note:** Custom lengths will be quoted upon request.

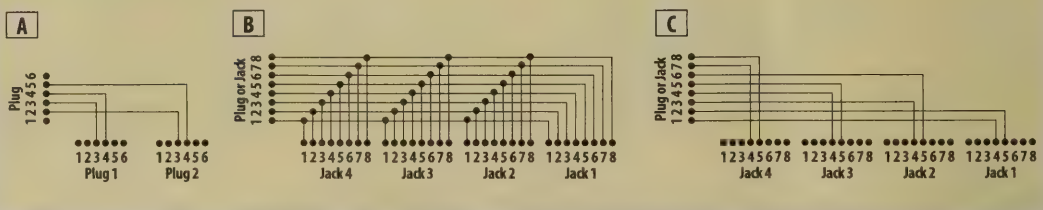
TRD503A-3	Modular Y Assembly (6x4)M / (6x2)M / (6x2)M, 3.0 ft	A	10.95	10.07	9.20	8.32
TRD503A-6	Modular Y Assembly (6x4)M / (6x2)M / (6x2)M, 6.0 ft	A	11.95	10.99	10.04	9.08
TRD503A-10	Modular Y Assembly (6x4)M / (6x2)M / (6x2)M, 10.0 ft	A	12.95	11.91	10.88	9.84

RoHS 5 Position RJ45 (8x8) Modular Splitters - Great for ISDN Applications

These modular splitters break out one RJ45 modular jack or plug to four RJ45 jacks. Outer body is ABS plastic. Connections are made via integral circuit board. PMOD series utilizes 3.5 inch cable attached to the incoming modular plug. Shielded and unshielded versions and custom requests are available with required minimum order.

JMOD4U-1	ISDN Splitter, 5 RJ45, Unshielded	B	8.95	8.23	7.52	6.80
JMOD4U-2	ISDN Splitter, 5 RJ45, Unshielded	C	8.75	8.05	7.35	6.65
JMOD4S-1	ISDN Splitter, 5 RJ45, Shielded	B	12.95	11.91	10.88	9.84
JMOD4S-2	ISDN Splitter, 5 RJ45, Shielded	C	12.75	11.73	10.71	9.69
PMOD4U-1	ISDN Splitter and Cable, 5 RJ45, Unshielded	B	9.95	9.15	8.36	7.56
PMOD4U-2	ISDN Splitter and Cable, 5 RJ45, Unshielded	C	9.75	8.97	8.19	7.41
PMOD4S-1	ISDN Splitter and Cable, 5 RJ45, Shielded	B	13.95	12.83	11.72	10.60
PMOD4S-2	ISDN Splitter and Cable, 5 RJ45, Shielded	C	13.75	12.65	11.55	10.45

Wiring Diagrams



RoHS RJ45 (8x8) Modular Plug Terminator - 100 Ohm 1/4 Watt Resistors

This RJ45 terminator utilizes two 100 Ohm, 1/4 watt resistors between pins 4-5 and 3-6. Commonly used in ISDN applications with our modular splitters. Other versions available on a custom basis.

MOD27T	ISDN Terminator, RJ45 (8x8)	2.99	2.75	2.51	2.27
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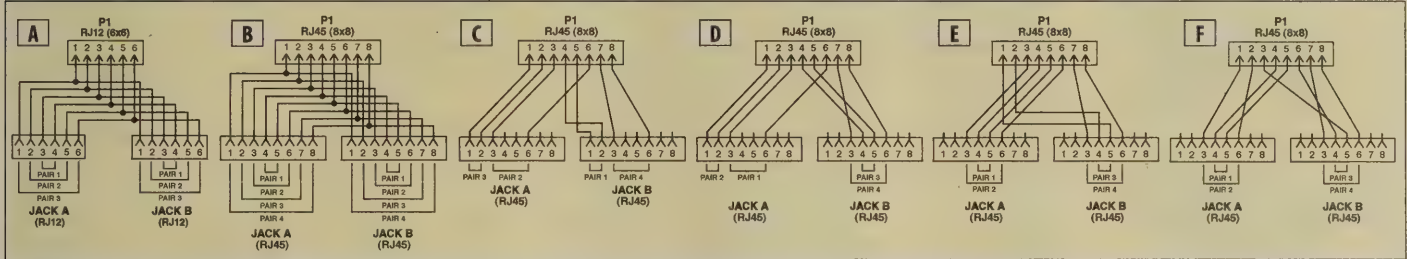
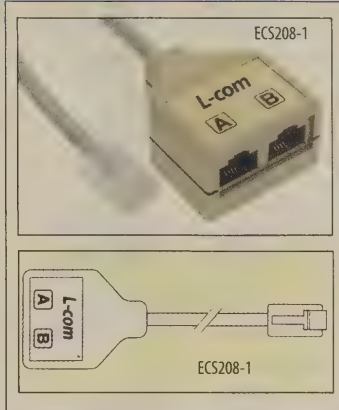


Item #	Description	Wiring	1-9	10-24	25-99	100-249
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RoHS Modular Y Adapters - Allow Line Splitting Flexibility in Today's DataCom Networks

Market demand for varied types of modular Y splitter cables has prompted this choice of six standard listings. The most popular types are stocked in one foot overall lengths. However, custom lengths are available. A dark, Gray molded box design style with all rounded edges is used as well as round U.T.P. Category 3 cable. All contact surfaces have 50 microinches gold plating. **Note:** Custom variations solicited to include: choice of modular jacks, any length of cable, different modular or DIN or other style plugs on cable. Minimum quantity of 250 may apply for most custom quotes.

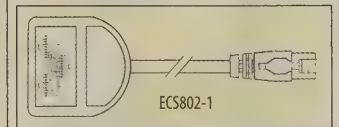
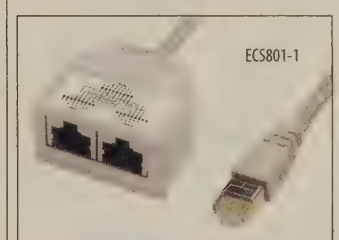
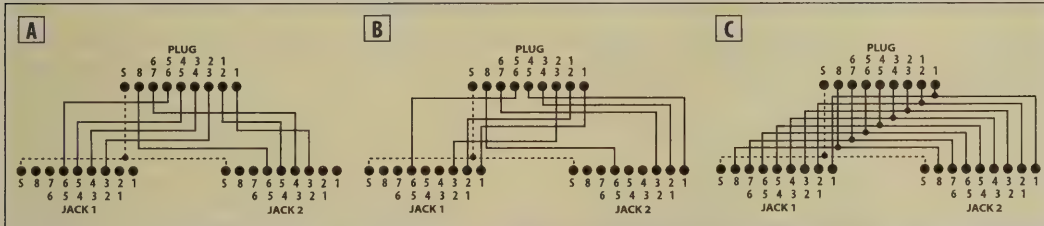
ECS203-1	Modular Y-Bridge, USOC-6 / USOC-6	A	7.95	7.31	6.68	6.04
ECS204-1	Modular Y-Bridge, USOC-8 / USOC-8	B	7.95	7.31	6.68	6.04
ECS205-1	Modular Y-Splitter, 10Base-T / 10Base-T	C	7.95	7.31	6.68	6.04
ECS206-1	Modular Y-Splitter, 10Base-T / Token Ring	D	7.95	7.31	6.68	6.04
ECS207-1	Modular Y-Splitter, Token Ring / Token Ring	E	7.95	7.31	6.68	6.04
ECS208-1	Modular Y-Splitter, Token Ring / Token Ring	F	7.95	7.31	6.68	6.04



RoHS Shielded Modular 2-Way Splitters - Allow Multiple Uses of 4-Pair Cabling

This series is designed for use in environments where shielding protection is required. Features include: fully shielded PCB mounted jacks, RJ45 plugs with a 360 degree strain relief and a sturdy ABS housing. Three configurations in 12 inch lengths are offered. The bridging adapter combines all like numbered pins allowing devices to share a single interface. Two splitter versions are available configured for 10Base-T and Token Ring applications. Custom configurations will be considered with modest minimums. Please contact our Sales group for assistance.

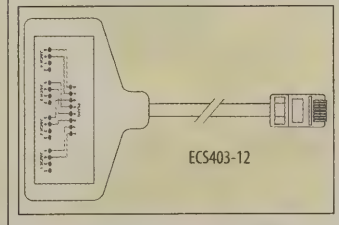
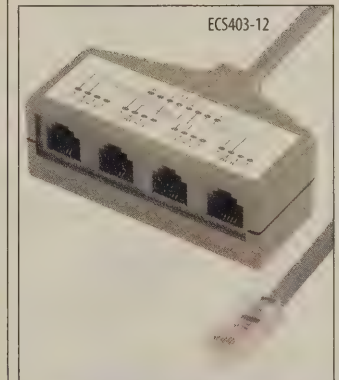
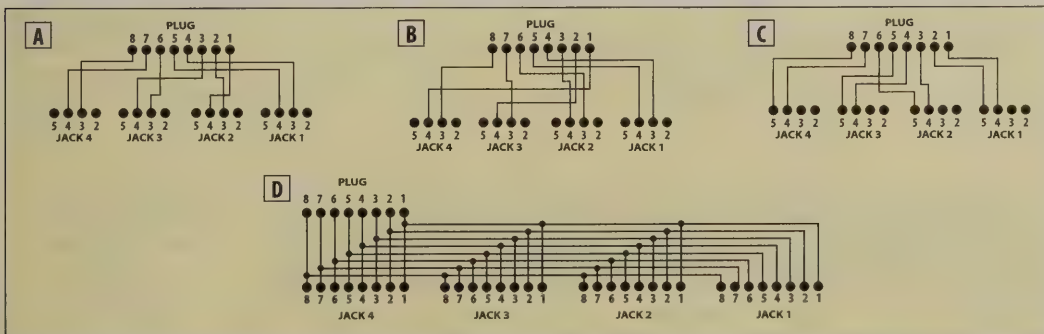
ECS801-1	USOC Splitter, 8x8 Plug / 2 (8x4) Jacks	A	9.95	9.15	8.36	7.56
ECS802-1	TIA568 Splitter, 8x8 Plug / 2 10Base-T Jacks	B	9.95	9.15	8.36	7.56
ECS803-1	USOC Bridge, 8x8 Plug / 2 (8x8) Jacks	C	9.95	9.15	8.36	7.56



RoHS Modular 4-Way Splitters - Allow Multiple Uses of 4-Pair Cabling

This series allows users to take advantage of installed 4-pair to gain access to individual pairs or bridge multiple jacks. Four configurations in a 12 inch overall length are offered. The bridging adapter combines all like numbered pins allowing devices to share a single interface. The breakout models allow access to each individual pair at the 8x8 plug through four 6x2 or 8x2 jacks. Custom configurations will be considered with modest minimums. Please contact our Sales group for assistance.

ECS401-12	TIA568B Splitter, 8x8 Plug / 4 (6x2) Jacks	A	9.95	9.15	8.36	7.56
ECS402-12	USOC Splitter, 8x8 Plug / 4 (6x2) Jacks	B	9.95	9.15	8.36	7.56
ECS403-12	TIA568 Splitter, 8x8 Plug / 4 (8x2) Jacks	C	9.95	9.15	8.36	7.56
ECS404-12	USOC Bridge, 8x8 Plug / 4 (8x8) Jacks	D	9.95	9.15	8.36	7.56

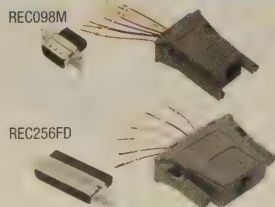


We want to help you!

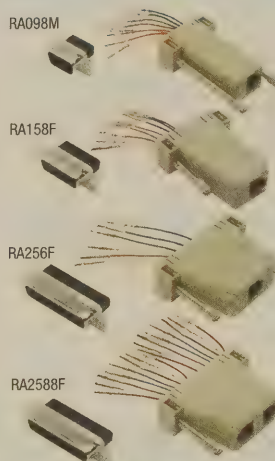
See a complete list of free tips, tutorials and videos at L-com.com/Resources

Premium Grade

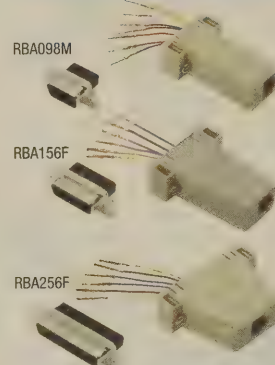
50 microinches GOLD with thumbscrews

**Deluxe Grade**

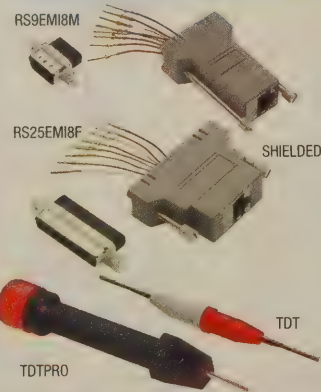
30 microinches GOLD with thumbscrews

**Deluxe Grade**

30 microinches GOLD w/slotted screws

**Deluxe Grade Shielded**

30 microinches GOLD with thumbscrews



Item #	Description	1-9	10-24	25-99	100-249	250-499
RoHS Premium Modular Adapter Kits - Design Features Molded Knurled Hold Down Screws						
The increased popularity of modular adapters prompted L-com to offer an off-the-shelf product that is a superior design featuring dark Gray 94V-0 plastic and 50 microinches of gold plating on the pins. L-com offers quotations for custom programming to fit your needs and with legends and/or logo, either molded-in or on labels for your application. TDT series insertion/extraction tools are necessary for programming.						
REC096F	Modular Adapter, DB9 Female / RJ12 (6x6) Jack	6.49	5.97	5.45	4.93	4.41
REC096M	Modular Adapter, DB9 Male / RJ12 (6x6) Jack	6.49	5.97	5.45	4.93	4.41
REC096FD	Modular Adapter, DB9 Female / MMJ (6x6) Jack	6.99	6.43	5.87	5.31	4.75
REC096MD	Modular Adapter, DB9 Male / MMJ (6x6) Jack	6.99	6.43	5.87	5.31	4.75
REC098F	Modular Adapter, DB9 Female / RJ45 (8x8) Jack	6.99	6.43	5.87	5.31	4.75
REC098M	Modular Adapter, DB9 Male / RJ45 (8x8) Jack	6.99	6.43	5.87	5.31	4.75
REC256F	Modular Adapter, DB25 Female / RJ12 (6x6) Jack	7.49	6.89	6.29	5.69	5.09
REC256M	Modular Adapter, DB25 Male / RJ12 (6x6) Jack	7.49	6.89	6.29	5.69	5.09
REC256FD	Modular Adapter, DB25 Female / MMJ (6x6) Jack	7.49	6.89	6.29	5.69	5.09
REC256MD	Modular Adapter, DB25 Male / MMJ (6x6) Jack	7.49	6.89	6.29	5.69	5.09
REC258F	Modular Adapter, DB25 Female / RJ45 (8x8) Jack	7.49	6.89	6.29	5.69	5.09
REC258M	Modular Adapter, DB25 Male / RJ45 (8x8) Jack	7.49	6.89	6.29	5.69	5.09

RoHS Modular Adapter Kits With Long Thumbscrews, Mate with DB9, DB15 and DB25

With one-piece housing, the modular adapter kits offer users a simple way to prepare custom wired adapters in the field. Featuring 30 microinches of gold plating on the contact pins and long metal thumbscrews. Each unit is programmable to your needs by simply inserting the prepared flying leads into the appropriate positions. TDT series insertion/extraction tools are necessary for programming.

RA096F	Modular Adapter, DB9 Female / RJ12 (6x6) Jack	5.49	5.05	4.61	4.17	3.73
RA096M	Modular Adapter, DB9 Male / RJ12 (6x6) Jack	5.49	5.05	4.61	4.17	3.73
RA098F	Modular Adapter, DB9 Female / RJ45 (8x8) Jack	5.99	5.51	5.03	4.55	4.07
RA098M	Modular Adapter, DB9 Male / RJ45 (8x8) Jack	5.99	5.51	5.03	4.55	4.07
RA156F	Modular Adapter, DB15 Female / RJ12 (6x6) Jack	5.99	5.51	5.03	4.55	4.07
RA158F	Modular Adapter, DB15 Female / RJ45 (8x8) Jack	6.29	5.79	5.28	4.78	4.28
RA158M	Modular Adapter, DB15 Male / RJ45 (8x8) Jack	6.29	5.79	5.28	4.78	4.28
RA256F	Modular Adapter, DB25 Female / RJ12 (6x6) Jack	6.29	5.79	5.28	4.78	4.28
RA256M	Modular Adapter, DB25 Male / RJ12 (6x6) Jack	6.29	5.79	5.28	4.78	4.28
RA258F	Modular Adapter, DB25 Female / RJ45 (8x8) Jack	6.49	5.97	5.45	4.93	4.41
RA258M	Modular Adapter, DB25 Male / RJ45 (8x8) Jack	6.49	5.97	5.45	4.93	4.41
RA2510F	Modular Adapter, DB25 Female / 10 Pin Modular Jack	6.79	6.25	5.70	5.16	4.62
RA2510M	Modular Adapter, DB25 Male / 10 Pin Modular Jack	6.79	6.25	5.70	5.16	4.62
RA2588F	Modular Adapter, DB25 Female / Dual RJ45 Modular Jack	9.99	9.19	8.39	7.59	6.79
RA2588M	Modular Adapter, DB25 Male / Dual RJ45 Modular Jack	9.99	9.19	8.39	7.59	6.79

RoHS Modular Adapter Kits - With Slotted Screws, Mate with DB9, DB15 and DB25

This series is identical to the RA Series except for the fact that the thumbscrew is replaced with a shorter screw head requiring a screwdriver for fastening to the system. A full range is provided which includes the DB9, DB15 and DB25 interface, available with RJ11/12 or RJ45 jacks. Modular contacts have 30 microinches of gold plating. TDT series insertion/extraction tools are necessary for programming.

RBA096F	Modular Adapter, DB9 Female / RJ12 (6x6) Jack	5.49	5.05	4.61	4.17	3.73
RBA096M	Modular Adapter, DB9 Male / RJ12 (6x6) Jack	5.49	5.05	4.61	4.17	3.73
RBA098F	Modular Adapter, DB9 Female / RJ45 (8x8) Jack	5.99	5.51	5.03	4.55	4.07
RBA098M	Modular Adapter, DB9 Male / RJ45 (8x8) Jack	5.99	5.51	5.03	4.55	4.07
RBA156F	Modular Adapter, DB15 Female / RJ12 (6x6) Jack	5.99	5.51	5.03	4.55	4.07
RBA156M	Modular Adapter, DB15 Male / RJ12 (6x6) Jack	5.99	5.51	5.03	4.55	4.07
RBA256F	Modular Adapter, DB25 Female / RJ12 (6x6) Jack	6.29	5.79	5.28	4.78	4.28
RBA256M	Modular Adapter, DB25 Male / RJ12 (6x6) Jack	6.29	5.79	5.28	4.78	4.28
RBA258F	Modular Adapter, DB25 Female / RJ45 (8x8) Jack	6.49	5.97	5.45	4.93	4.41
RBA258M	Modular Adapter, DB25 Male / RJ45 (8x8) Jack	6.49	5.97	5.45	4.93	4.41

RoHS Shielded Modular Adapter Kits - Feature Special Internal Design - EMI/RFI Shield

Similar in appearance and use to our standard RA Series but the similarity ends there. Built into the Gray plastic case assembly is an inner formed metal shield. This provides 100% EMI/RFI protection when used with the fully shielded modular plugs as listed on page 41. Modular contacts have 30 microinches of gold plating. This is our best adapter; guaranteed to provide the best shielding effectiveness. Mandatory for systems utilizing fully shielded cabling and shielded modular plugs. Use TDT series tools to insert/remove contacts. 4-40 hardware.

RS9EMI8F	Shielded Modular Adapter, DB9 Female / RJ45 (8x8) Jack	9.95	9.15	8.36	7.56	CALL
RS9EMI8M	Shielded Modular Adapter, DB9 Male / RJ45 (8x8) Jack	9.95	9.15	8.36	7.56	CALL
RS25EMI8F	Shielded Modular Adapter, DB25 Female / RJ45 (8x8) Jack	9.95	9.15	8.36	7.56	CALL
RS25EMI8M	Shielded Modular Adapter, DB25 Male / RJ45 (8x8) Jack	9.95	9.15	8.36	7.56	CALL

RoHS Insertion and Removal Tools For Crimp & Poke Type Contacts - Professional and Economy Versions

Two insertion/extraction tools are available for inserting contacts into D-Subs. Professional model is made for multiple insertions and is built on a larger, more ergonomic tool body. The economy version is also available when limited insertions are necessary.

TDT	Economy Contact Insertion/Extraction Tool	2.95	2.71	2.48	2.24	CALL
TDTPRO	Pro Contact Insertion/Extraction Tool	19.95	19.15	18.35	17.56	CALL

HANDSET 4x4	RJ11 6x4	RJ12 6x6	MMJ OFFSET 6x6	RJ45 8x8	RJ45 KEYED 8x8	10 POSITION 10x10

Modular Jack Configuration

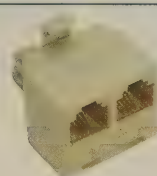
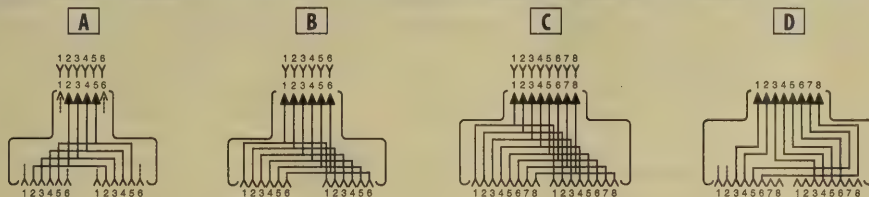
Jack
(Female Gender)

Item #	Description	Wiring	1-9	10-24	25-99	100-249	250-499
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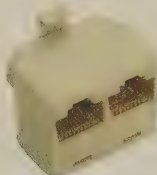
RoHS Modular TEE Adapters - The Most Practical Way to Tap Into Your Wiring Networks

All units have either 2, 3 or 4 RJ jacks mating to a male or female. Useful in daisy chain wiring, parallel phones or answering machines. It also is very useful in test environments where access to specific pins is required.

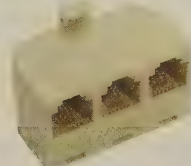
EC503-4	Modular TEE Adapter (6x4)M / (6x4)F / (6x4)F	A	3.95	3.63	3.32	3.00	CALL
EC503-6E	Modular TEE Adapter (6x6)M / (6x6)F / (6x6)F	B	3.95	3.63	3.32	3.00	CALL
EC503-8	Modular TEE Adapter (8x8)M / (8x8)KF / (8x8)KF	C	4.95	4.55	4.16	3.76	CALL
EC503-448	Modular TEE Splitter (8x8)M / (8x4)KF / (8x4)KF	D	4.95	4.55	4.16	3.76	CALL



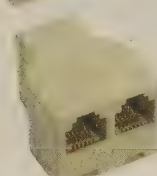
EC503 Typical



EC503-8



EC503-2134



TDS1039-6C

RoHS Modular TEE Splitter - Allows Dual Telco Line to Separate into Two RJ11 Jacks

EC503-1703	Modular TEE Splitter (6x4)M / (6x2)F / (6x2)F	E	4.95	4.55	4.16	3.76	CALL
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RoHS Modular Splitter Adapter - Allows Three RJ11/12 Circuits to be Parallel Connected

EC503-2134	Modular 1 to 3 Adapter (6x4)M / 3 (6x4)F	F	4.95	4.55	4.16	3.76	CALL
EC503-2136	Modular 1 to 3 Adapter (6x6)M / 3 (6x6)F	F	4.95	4.55	4.16	3.76	CALL

RoHS Modular TEE Junction - Three RJ11/12 or RJ45 Receptacles Accept Three Plugs

TDS1039-4C	Modular TEE Junction (6x4)F / (6x4)F, (6x4)F	A	3.95	3.63	3.32	3.00	CALL
TDS1039-6C	Modular TEE Junction (6x6)F / (6x6)F, (6x6)F	B	4.95	4.55	4.16	3.76	CALL
TDS1039-8C	Modular TEE Junction (8x8)F / (8x8)F, (8x8)F	C	5.29	4.87	4.44	4.02	CALL

RoHS Socket Saver Adapters - Extend the Life of Frequently Used Modular Jacks

Avoid costly repairs trying to replace modular jacks. Particularly useful with cable testers where jacks are in constant use. A small price to pay to assure maximum performance for the life of your equipment. Also available is the EC535D-10X 10Base-T crossover adapter. Attach this in series with any 10Base-T compatible patch cord and the 1-2 pair crosses to the 3-6 pair. This wiring is often necessary for stacking Ethernet hubs.

EC535AD	Modular Conversion Adapter (6x6)M / (8x6)KF	G	3.95	3.63	3.32	3.00	CALL
EC535A	Modular Socket Saver (6x6)M / (6x6)F	H	3.95	3.63	3.32	3.00	CALL
EC535D	Modular Socket Saver (8x8)M / (8x8)KF	J	3.95	3.63	3.32	3.00	CALL
EC535D-10X	Modular 10Base-T Crossover Adapter (8x4)M / (8x4)KF	K	3.95	3.63	3.32	3.00	CALL



EC535AD Front View



EC535AD Rear View

RoHS Modular Couplers - Allow Mating of Cables Having Same Modular Termination

We offer a choice of wiring types, straight-thru for use in low speed data communication and crossed wiring for voice applications. This series has gold plated contact surfaces.

TDG1026-4R	Modular Coupler, RJ11 (6x4), Cross Wired	2.15	1.98	1.81	1.63	1.46
TDG1026-6R	Modular Coupler, RJ12 (6x6), Cross Wired	2.35	2.16	1.97	1.79	1.60
TDG1026-8R	Modular Coupler, RJ45 (8x8), Cross Wired	2.95	2.71	2.48	2.24	2.01
TDG1026-4C	Modular Coupler, RJ11 (6x4), Straight Wired	2.15	1.98	1.81	1.63	1.46
TDG1026-6C	Modular Coupler, RJ12 (6x6), Straight Wired	2.35	2.16	1.97	1.79	1.60
TDG1026-8C	Modular Coupler, RJ45 (8x8), Straight Wired	2.95	2.71	2.48	2.24	2.01
TDG1026-8CK	Modular Coupler, RJ45K (8x8), Straight, Keyed	3.15	2.90	2.65	2.39	2.14



TDG1026-8C



TDG1026-8CK

RoHS Reverse Cable Adapter - A Handy Device To Have To Reverse Polarity (Cross Wiring)

TDC48R	Reverse Cable Adapter, RJ11 (6x4), Male / Female, 10"	2.65	2.44	2.23	2.01	1.80
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Note: Longer lengths and modular connector types available on special orders

RoHS Telephone and Data 7 Ft Extension Cords - With Male and Female Modular Connectors

TAC535-4-7	7 ft Modular Extension Cord, Straight Wired, RJ11 (6x4)	4.49	4.13	3.77	3.41	CALL
TAC535-6-7	7 ft Modular Extension Cord, Straight Wired, RJ12 (6x6)	4.79	4.41	4.02	3.64	CALL
TAC535-8-7	7 ft Modular Extension Cord, Straight Wired, RJ45 (8x8)	4.99	4.59	4.19	3.79	CALL

Note: 8x8 jacks are keyed. This series also available as Cross Wired. Custom wiring schemes considered.

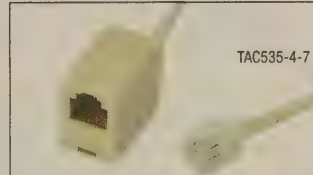
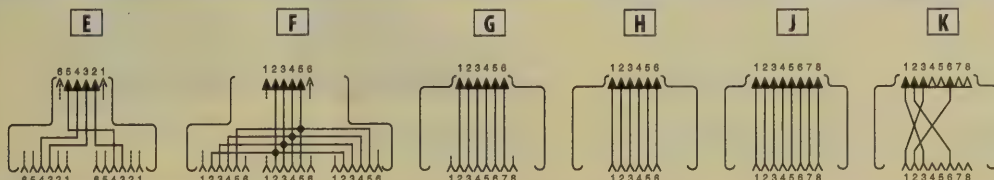


TDC48R

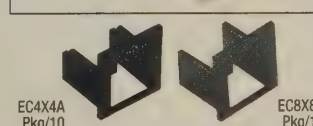
RoHS Modular Insert Adapters

These adapters provide a simple way to allow smaller modular plugs to fit securely into a larger jack. Two types are available: an RJ11/12 plug into an RJ45 jack or an RJ22 style handset plug into an RJ11/12 size jack.

EC4X4A	Modular Insert Adapter, RJ22 Handset Plug into an RJ11/12 Jack, Pkg/10	2.99	2.81	2.63	2.45	CALL
EC8X8A	Modular Insert Adapter, RJ11/12 Plug into an RJ45 Jack, Pkg/10	2.99	2.75	2.51	2.27	CALL



TAC535-4-7



EC4X4A Pkg/10

EC8X8A Pkg/10



Helpful videos

How-to videos help with some of today's popular product applications. L-com.com/Tips



Data Cabling Tutorial

■ What is D-Subminiature?

D-Subminiature products are connection products utilizing various D-Subminiature style interface types to transmit data signals.

■ How is D-Subminiature used?

D-Subminiature products are used to connect a data generating device such as a CPU (Central Processing Unit) to a data producing device such as a printer.

■ Where is D-Subminiature used?

D-Subminiature products are used in numerous data transmission applications found in office, industrial, home or testing environments.

Data Cabling Terms

American Wire Gauge (AWG): A U.S. standard set of non-ferrous wire conductor sizes. Typical data wiring is AWG number 24, 26 or 28. The higher the gauge number, the smaller the diameter and the thinner the wire.

Backshell (Hood): A mechanical backing that is sometimes put on a connector. It protects the conductors and can be assembled or injection molded. Commonly used with D-Sub connectors.

Cable: Set of insulated wires or conductors within an extruded jacket. Many cable types use shielding around the wires and under the cable jacket.

Cable Assembly: A cable that has been terminated with one or more connectors.

Conductor: A metal path, usually copper, that passes electricity. When discussing data cabling, "wire" and "conductor" are synonymous.

Connector: Electromechanical coupling device that provides an electrical interface that can be mated and unmated.

Contact: The specific points of contact within a connector. May be male (pins) or female (sockets).

Contact Resistance: Resistance is basically the opposition to electron flow in an electrical circuit and connector. Manufacturers strive to attain the lowest amount of resistance possible for each contact. Contact resistance is the cumulative resistance value for mated contacts.

Crimping: A means of securing an electrical contact to a wire using tools that compress the metal contact around the wire.

Crosstalk: When unwanted electromagnetic fields from conductors are transferred into adjacent conductors. Crosstalk is controlled by separating or shielding conductors or twisting into a pair.

D-Subminiature: A common connector type that utilizes multiple pins and a D shaped housing.

Electromagnetic Interference (EMI): Unwanted electrical or electromagnetic energy that causes unwanted responses in electronic equipment.

Extrusion: The mechanical process of coating a wire or group of wires with insulating material.

Ground: Any zero-voltage point. Earth is considered a zero voltage grounding point.

Ground Wire (Drain Wire): Extra conductor, usually a bare wire, added to a cable for connection of the grounding path.

Injection Molding: The process used to inject molten polymer into a mold. Connector backshells are often injection molded.

Insulation: A material with very high resistivity used to protect conductors. Insulation is usually extruded over the wire or conductor after the drawing process.

Shielding: A conductive foil or braid that covers insulated wires in a cable. It provides electrical grounding and protection from external electromagnetic interference (EMI). Shielding is also used to control internal electromagnetic radiation.

Soldering: A means of securing an electrical contact to a wire by heating an alloy, usually consisting of tin and lead, also known as "solder".

Solid Wire (or Conductor): One strand of wire. Usually less flexible, lower in cost and lower in resistance than stranded wire of the same AWG. Solid wire is typically used in permanent installations where flexing does not occur.

Strain Relief: A method of protecting the wire to contact point from flexing or pulling.

Stranded Wire (or Conductor): Multiple small AWG strands of wire that are put together to make a flexible wire with similar electrical properties as a similar solid wire. Stranded wires are usually used in data cabling.

Twisted Pair: Two insulated conductors twisted at a fixed rate of twists per unit of length, typically used in balanced circuits where nominal impedance and crosstalk are critical characteristics.

Wire: A conductive material, usually copper, that has been drawn down to a specific size (see wire basics above) and is then coated with an insulating material. A "bare wire" utilizes no insulator coating.

Wire Drawing: The mechanical process of making conductors smaller by forcing through dies.



For more useful information go to....

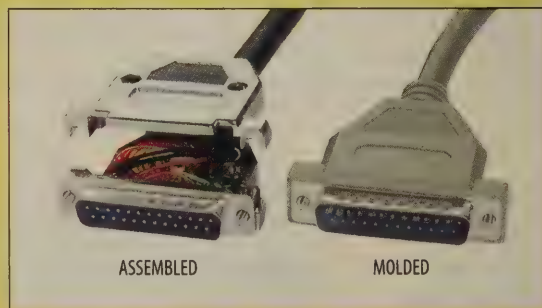
www.L-com.com/Resources



Tip

What is the difference between assembled and molded cable assemblies?

The difference between an assembled and molded cable assembly is in the construction of the backshell. An assembled backshell can be plastic (not shielded) or metal (shielded) and can be disassembled by removing hardware. On a molded cable assembly, the backshell is typically molded PVC that cannot be disassembled.




Tip

Selecting the right D-Sub Cable Assembly for your application.

L-com takes pride in having the largest variety of D-Sub cables in the industry. The following selection guide is intended to assist you in selecting the right cable for your particular need.

Cable Series	Available Sizes	Available Connector Combinations	Color	Cable Shielding	Wire AWG	Distinguishing Characteristics	Photo
CSM	DB9, DB15, DB25, DB37	Male-Male, Male-Female	Gray	Foil/Mylar	26	Least expensive option Uses smaller, slotted screws instead of thumbscrews	
CSMN	DB9, DB15, DB25, DB37, DB50	Male-Male, Male-Female	Light Gray	Foil/Mylar *	26 *	Most similar to industry standard cables	
CSMNB	DB9, DB15, DB25	Male-Male, Male-Female	Black	Foil/Mylar	26	Black color for color matching black computer peripherals	
CS2N	DB9, HDB15, DB25, DB37, DB15	Male-Male, Male-Female	Light Gray	Foil/Mylar + Braid	26	Extra cable shielding and steel internal enclosure provides maximum protection from EMI/RFI corruption	
CRMN	DB9, DB15, DB25, DB37	Male-Male, Male-Female, Female-Female	Light Gray	Foil/Mylar	26	Reversible hardware feature allows cables to be directly panel mounted without the use of an adapter or any other component	
CSMUZ	DB9, DB25	Male-Male, Male-Female	Black	Foil/Mylar + Braid	24	Low Smoke Zero Halogen (LSZH) jacket and backshell material significantly reduce the amount of toxic and corrosive gases emitted during combustion. Extra cable shielding and steel internal enclosure provides maximum protection from EMI/RFI corruption	
CSNULL	DB9, DB25, DB25-DB9	Male-Female, Female-Female	Light Gray	Foil/Mylar	26	Data lines wired specifically to allow devices to communicate without the use of modems or other peripherals	
CMZ	DB25 Male-DB9 Female	Male-Female	Light Gray	Foil/Mylar	26	Wired specifically to connect an external modem (DB25) to a PC serial port (DB9)	
CHD	HDB15, HDB26, HDB44, HDB62, HDB78	Male-Male, Male-Female	Light Gray**	See below**	See below**	High density D-sub connectors utilize more contacts than standard D-sub connectors even though they use the same size connector shells	

* Exception - CSMN50 is double shielded (foil/mylar + braid) with 28 AWG conductors

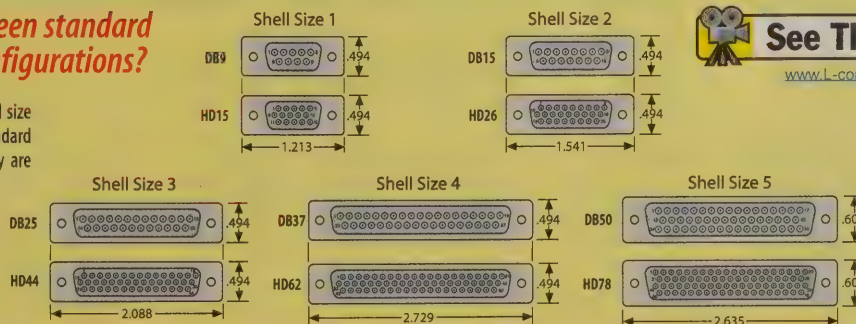
** CHD15 & CHD26 are foil/mylar shielded with 26 AWG conductors

CHD44 is double shielded (foil/mylar + braid) with 24 AWG conductors

CHD62 & CHD78 are double shielded (foil/mylar + braid) with 28 AWG conductors

What is the difference between standard and High-Density D-Sub configurations?

The industry uses 5 different shell sizes; each shell size can have 2 different configurations of pins. Standard configurations are listed on top and High-Density are listed below.


See The Video

www.l-com.com/Videos/A13



Distinguishing between male and female D-Sub connectors

See the free video tip and more at
L-com.com/Videos/A14

L-com Global Connectivity



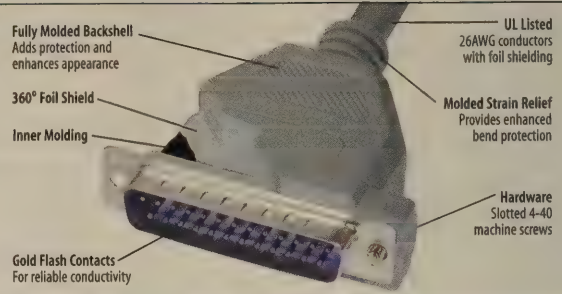
See The Video

www.l-com.com/Videos/A13

Item #	Description	1-9	10-24	25-99	100-249	250-499
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Economy D-Sub Cable Assemblies - Fully Populated with 4-40 Hardware

The CSM Series of D-Sub cable assemblies offer solid performance at economical prices. All assemblies utilize 26AWG stranded conductors with foil shielding for flexibility and performance. Backshells are fully molded for reliability in environments where flexing is an issue. Mating hardware is 4-40 machine screws. Hex nuts on female connectors are removable to expose 4-40 machine screws. Color: Gray.



RoHS Economy 9 Pin D-Sub Molded Cables - Common for Serial Connections, Shielded and Fully Populated

CSM9MM-2.5	Economy Molded Cable, DB9 Male / Male, 2.5 ft	6.75	6.21	5.67	5.13	4.59
CSM9MM-5	Economy Molded Cable, DB9 Male / Male, 5.0 ft	7.75	7.13	6.51	5.89	5.27
CSM9MM-10	Economy Molded Cable, DB9 Male / Male, 10.0 ft	9.75	8.97	8.19	7.41	6.63
CSM9MM-25	Economy Molded Cable, DB9 Male / Male, 25.0 ft	15.75	14.49	13.23	11.97	10.71
CSM9MM-50	Economy Molded Cable, DB9 Male / Male, 50.0 ft	25.75	23.69	21.63	19.57	17.51
CSM9MF-2.5	Economy Molded Cable, DB9 Male / Female, 2.5 ft	6.75	6.21	5.67	5.13	4.59
CSM9MF-5	Economy Molded Cable, DB9 Male / Female, 5.0 ft	7.75	7.13	6.51	5.89	5.27
CSM9MF-10	Economy Molded Cable, DB9 Male / Female, 10.0 ft	9.75	8.97	8.19	7.41	6.63
CSM9MF-15	Economy Molded Cable, DB9 Male / Female, 15.0 ft	11.75	10.81	9.87	8.93	7.99
CSM9MF-25	Economy Molded Cable, DB9 Male / Female, 25.0 ft	15.75	14.49	13.23	11.97	10.71
CSM9MF-50	Economy Molded Cable, DB9 Male / Female, 50.0 ft	25.75	23.69	21.63	19.57	17.51

RoHS Economy 15 Pin D-Sub Molded Cables - For Various Applications, Shielded and Fully Populated

CSM15MM-2.5	Economy Molded Cable, DB15 Male / Male, 2.5 ft	8.00	7.52	7.04	6.56	6.08
CSM15MM-5	Economy Molded Cable, DB15 Male / Male, 5.0 ft	9.25	8.70	8.14	7.59	7.03
CSM15MM-10	Economy Molded Cable, DB15 Male / Male, 10.0 ft	11.75	11.05	10.34	9.64	8.93
CSM15MM-15	Economy Molded Cable, DB15 Male / Male, 15.0 ft	15.50	14.26	13.02	11.78	10.54
CSM15MM-25	Economy Molded Cable, DB15 Male / Male, 25.0 ft	19.25	18.10	16.94	15.78	14.63
CSM15MM-50	Economy Molded Cable, DB15 Male / Male, 50.0 ft	27.75	25.53	23.31	21.09	18.87
CSM15MF-2.5	Economy Molded Cable, DB15 Male / Female, 2.5 ft	8.00	7.52	7.04	6.56	6.08
CSM15MF-5	Economy Molded Cable, DB15 Male / Female, 5.0 ft	9.25	8.70	8.14	7.59	7.03
CSM15MF-10	Economy Molded Cable, DB15 Male / Female, 10.0 ft	11.75	11.05	10.34	9.64	8.93
CSM15MF-15	Economy Molded Cable, DB15 Male / Female, 15.0 ft	14.25	13.40	12.54	11.68	10.83
CSM15MF-25	Economy Molded Cable, DB15 Male / Female, 25.0 ft	19.25	18.10	16.94	15.78	14.63
CSM15MF-50	Economy Molded Cable, DB15 Male / Female, 50.0 ft	31.75	29.85	27.94	26.04	24.13

RoHS Economy 25 Pin D-Sub Molded Cables - Shielded and Fully Populated

CSM25MM-2.5	Economy Molded Cable, DB25 Male / Male, 2.5 ft	8.00	7.36	6.72	6.08	5.44
CSM25MM-5	Economy Molded Cable, DB25 Male / Male, 5.0 ft	9.00	8.28	7.56	6.84	6.12
CSM25MM-10	Economy Molded Cable, DB25 Male / Male, 10.0 ft	11.00	10.12	9.24	8.36	7.48
CSM25MM-15	Economy Molded Cable, DB25 Male / Male, 15.0 ft	15.50	14.26	13.02	11.78	10.54
CSM25MM-25	Economy Molded Cable, DB25 Male / Male, 25.0 ft	17.00	15.64	14.28	12.92	11.56
CSM25MM-50	Economy Molded Cable, DB25 Male / Male, 50.0 ft	29.50	27.14	24.78	22.42	20.06
CSM25MF-2.5	Economy Molded Cable, DB25 Male / Female, 2.5 ft	8.00	7.36	6.72	6.08	5.44
CSM25MF-5	Economy Molded Cable, DB25 Male / Female, 5.0 ft	9.00	8.28	7.56	6.84	6.12
CSM25MF-10	Economy Molded Cable, DB25 Male / Female, 10.0 ft	11.00	10.12	9.24	8.36	7.48
CSM25MF-15	Economy Molded Cable, DB25 Male / Female, 15.0 ft	13.00	11.96	10.92	9.88	8.84
CSM25MF-25	Economy Molded Cable, DB25 Male / Female, 25.0 ft	17.00	15.64	14.28	12.92	11.56
CSM25MF-50	Economy Molded Cable, DB25 Male / Female, 50.0 ft	27.00	24.84	22.68	20.52	18.36

RoHS Economy 37 Pin D-Sub Molded Cables - Shielded and Fully Populated

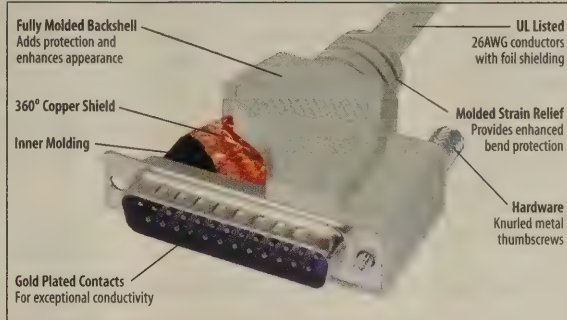
CSM37MM-2.5	Economy Molded Cable, DB37 Male / Male, 2.5 ft	25.00	23.50	22.00	20.50	19.00
CSM37MM-5	Economy Molded Cable, DB37 Male / Male, 5.0 ft	27.50	25.85	24.20	22.55	20.90
CSM37MM-10	Economy Molded Cable, DB37 Male / Male, 10.0 ft	32.50	30.55	28.60	26.65	24.70
CSM37MM-25	Economy Molded Cable, DB37 Male / Male, 25.0 ft	47.50	44.65	41.80	38.95	36.10
CSM37MM-50	Economy Molded Cable, DB37 Male / Male, 50.0 ft	61.00	56.12	51.24	46.36	41.48
CSM37MF-2.5	Economy Molded Cable, DB37 Male / Female, 2.5 ft	25.00	23.50	22.00	20.50	19.00
CSM37MF-5	Economy Molded Cable, DB37 Male / Female, 5.0 ft	27.50	25.85	24.20	22.55	20.90
CSM37MF-10	Economy Molded Cable, DB37 Male / Female, 10.0 ft	32.50	30.55	28.60	26.65	24.70
CSM37MF-15	Economy Molded Cable, DB37 Male / Female, 15.0 ft	36.50	33.58	30.66	27.74	24.82
CSM37MF-25	Economy Molded Cable, DB37 Male / Female, 25.0 ft	47.50	44.65	41.80	38.95	36.10
CSM37MF-50	Economy Molded Cable, DB37 Male / Female, 50.0 ft	61.00	56.12	51.24	46.36	41.48

Item #	Description	1-9	10-24	25-99	100-249	250-499
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Deluxe D-Sub Cable Assemblies - Fully Populated with 4-40 Thumbscrews

The CSMN Series of D-Sub cable assemblies is our middle of the line that offers excellent performance and lower pricing. All assemblies utilize 26AWG stranded conductors with foil shielding for flexibility and performance. Backshells are fully molded with copper shielding for better immunity to outside noise. Mating hardware is 4-40 thumbscrews which makes securing without tools quick and easy. Hex nuts on female connectors are removable to expose 4-40 thumbscrews. **Note:** 50 pin assemblies use 28AWG twisted pairs due to space constraints in the backshell molding. Color: Light Gray.

Note: see page 63 for Deluxe Black cables.



RoHS Deluxe 9 Pin D-Sub Molded Cables with Thumbscrews - Shielded and Fully Populated

CSMN9MM-2.5	Deluxe Molded Cable, DB9 Male / Male, 2.5 ft	7.50	6.90	6.30	5.70	5.10
CSMN9MM-5	Deluxe Molded Cable, DB9 Male / Male, 5.0 ft	8.75	8.05	7.35	6.65	5.95
CSMN9MM-10	Deluxe Molded Cable, DB9 Male / Male, 10.0 ft	11.25	10.35	9.45	8.55	7.65
CSMN9MM-15	Deluxe Molded Cable, DB9 Male / Male, 15.0 ft	13.75	12.65	11.55	10.45	9.35
CSMN9MM-25	Deluxe Molded Cable, DB9 Male / Male, 25.0 ft	18.75	17.25	15.75	14.25	12.75
CSMN9MM-125	Deluxe Molded Cable, DB9 Male / Male, 125.0 ft	68.75	63.25	57.75	52.25	46.75
CSMN9MF-2.5	Deluxe Molded Cable, DB9 Male / Female, 2.5 ft	7.50	6.90	6.30	5.70	5.10
CSMN9MF-5	Deluxe Molded Cable, DB9 Male / Female, 5.0 ft	8.75	8.05	7.35	6.65	5.95
CSMN9MF-10	Deluxe Molded Cable, DB9 Male / Female, 10.0 ft	11.25	10.35	9.45	8.55	7.65
CSMN9MF-15	Deluxe Molded Cable, DB9 Male / Female, 15.0 ft	13.75	12.65	11.55	10.45	9.35
CSMN9MF-25	Deluxe Molded Cable, DB9 Male / Female, 25.0 ft	18.75	17.25	15.75	14.25	12.75

RoHS Deluxe 15 Pin D-Sub Molded Cables with Thumbscrews - Shielded and Fully Populated

CSMN15MM-2.5	Deluxe Molded Cable, DB15 Male / Male, 2.5 ft	11.25	10.58	9.90	9.23	8.55
CSMN15MM-5	Deluxe Molded Cable, DB15 Male / Male, 5.0 ft	12.75	11.99	11.22	10.46	9.69
CSMN15MM-10	Deluxe Molded Cable, DB15 Male / Male, 10.0 ft	15.75	14.81	13.86	12.92	11.97
CSMN15MM-15	Deluxe Molded Cable, DB15 Male / Male, 15.0 ft	18.75	17.63	16.50	15.37	14.25
CSMN15MM-25	Deluxe Molded Cable, DB15 Male / Male, 25.0 ft	24.75	23.26	21.78	20.29	18.81
CSMN15MM-50	Deluxe Molded Cable, DB15 Male / Male, 50.0 ft	39.75	37.36	34.98	32.60	30.21
CSMN15MF-2.5	Deluxe Molded Cable, DB15 Male / Female, 2.5 ft	11.25	10.58	9.90	9.23	8.55
CSMN15MF-5	Deluxe Molded Cable, DB15 Male / Female, 5.0 ft	12.75	11.99	11.22	10.46	9.69
CSMN15MF-10	Deluxe Molded Cable, DB15 Male / Female, 10.0 ft	15.75	14.81	13.86	12.92	11.97
CSMN15MF-15	Deluxe Molded Cable, DB15 Male / Female, 15.0 ft	18.75	17.63	16.50	15.37	14.25
CSMN15MF-25	Deluxe Molded Cable, DB15 Male / Female, 25.0 ft	24.75	23.26	21.78	20.29	18.81
CSMN15MF-50	Deluxe Molded Cable, DB15 Male / Female, 50.0 ft	39.75	37.36	34.98	32.60	30.21

RoHS Deluxe 25 Pin D-Sub Molded Cables with Thumbscrews - Shielded and Fully Populated

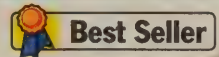
CSMN25MM-2.5	Deluxe Molded Cable, DB25 Male / Male, 2.5 ft	9.75	8.97	8.19	7.41	6.63
CSMN25MM-5	Deluxe Molded Cable, DB25 Male / Male, 5.0 ft	10.75	9.89	9.03	8.17	7.31
CSMN25MM-10	Deluxe Molded Cable, DB25 Male / Male, 10.0 ft	12.75	11.73	10.71	9.69	8.67
CSMN25MM-15	Deluxe Molded Cable, DB25 Male / Male, 15.0 ft	14.75	13.57	12.39	11.21	10.03
CSMN25MM-25	Deluxe Molded Cable, DB25 Male / Male, 25.0 ft	18.75	17.25	15.75	14.25	12.75
CSMN25MM-50	Deluxe Molded Cable, DB25 Male / Male, 50.0 ft	28.75	26.45	24.15	21.85	19.55
CSMN25MM-125	Deluxe Molded Cable, DB25 Male / Male, 125.0 ft	58.75	54.05	49.35	44.65	39.95
CSMN25MF-2.5	Deluxe Molded Cable, DB25 Male / Female, 2.5 ft	9.75	8.97	8.19	7.41	6.63
CSMN25MF-5	Deluxe Molded Cable, DB25 Male / Female, 5.0 ft	10.75	9.89	9.03	8.17	7.31
CSMN25MF-10	Deluxe Molded Cable, DB25 Male / Female, 10.0 ft	12.75	11.73	10.71	9.69	8.67
CSMN25MF-15	Deluxe Molded Cable, DB25 Male / Female, 15.0 ft	14.75	13.57	12.39	11.21	10.03
CSMN25MF-25	Deluxe Molded Cable, DB25 Male / Female, 25.0 ft	18.75	17.25	15.75	14.25	12.75
CSMN25MF-50	Deluxe Molded Cable, DB25 Male / Female, 50.0 ft	28.75	26.45	24.15	21.85	19.55

RoHS Deluxe 37 Pin D-Sub Molded Cables with Thumbscrews - Shielded and Fully Populated

CSMN37MM-2.5	Deluxe Molded Cable, DB37 Male / Male, 2.5 ft	27.50	25.85	24.20	22.55	20.90
CSMN37MM-5	Deluxe Molded Cable, DB37 Male / Male, 5.0 ft	30.00	28.20	26.40	24.60	22.80
CSMN37MM-10	Deluxe Molded Cable, DB37 Male / Male, 10.0 ft	35.00	32.90	30.80	28.70	26.60
CSMN37MM-15	Deluxe Molded Cable, DB37 Male / Male, 15.0 ft	40.00	37.60	35.20	32.80	30.40
CSMN37MM-25	Deluxe Molded Cable, DB37 Male / Male, 25.0 ft	50.00	47.00	44.00	41.00	38.00
CSMN37MM-50	Deluxe Molded Cable, DB37 Male / Male, 50.0 ft	75.00	70.50	66.00	61.50	57.00
CSMN37MF-2.5	Deluxe Molded Cable, DB37 Male / Female, 2.5 ft	27.50	25.85	24.20	22.55	20.90
CSMN37MF-5	Deluxe Molded Cable, DB37 Male / Female, 5.0 ft	30.00	28.20	26.40	24.60	22.80
CSMN37MF-10	Deluxe Molded Cable, DB37 Male / Female, 10.0 ft	35.00	32.90	30.80	28.70	26.60
CSMN37MF-15	Deluxe Molded Cable, DB37 Male / Female, 15.0 ft	40.00	37.60	35.20	32.80	30.40
CSMN37MF-25	Deluxe Molded Cable, DB37 Male / Female, 25.0 ft	50.00	47.00	44.00	41.00	38.00
CSMN37MF-50	Deluxe Molded Cable, DB37 Male / Female, 50.0 ft	75.00	70.50	66.00	61.50	57.00

RoHS Deluxe 50 Pin D-Sub Molded Cables with Thumbscrews - Shielded and Fully Populated

CSMN50MM-2.5	Deluxe Molded Cable, DB50 Male / Male, 2.5 ft	51.50	48.41	45.32	42.23	39.14
CSMN50MM-5	Deluxe Molded Cable, DB50 Male / Male, 5.0 ft	59.00	55.46	51.92	48.38	44.84
CSMN50MM-10	Deluxe Molded Cable, DB50 Male / Male, 10.0 ft	74.00	69.56	65.12	60.68	56.24
CSMN50MM-15	Deluxe Molded Cable, DB50 Male / Male, 15.0 ft	89.00	83.66	78.32	72.98	67.64
CSMN50MM-25	Deluxe Molded Cable, DB50 Male / Male, 25.0 ft	119.00	111.86	104.72	97.58	90.44
CSMN50MM-50	Deluxe Molded Cable, DB50 Male / Male, 50.0 ft	194.00	182.36	170.72	159.08	147.44
CSMN50MF-2.5	Deluxe Molded Cable, DB50 Male / Female, 2.5 ft	51.50	48.41	45.32	42.23	39.14
CSMN50MF-5	Deluxe Molded Cable, DB50 Male / Female, 5.0 ft	59.00	55.46	51.92	48.38	44.84
CSMN50MF-10	Deluxe Molded Cable, DB50 Male / Female, 10.0 ft	74.00	69.56	65.12	60.68	56.24
CSMN50MF-15	Deluxe Molded Cable, DB50 Male / Female, 15.0 ft	89.00	83.66	78.32	72.98	67.64
CSMN50MF-25	Deluxe Molded Cable, DB50 Male / Female, 25.0 ft	119.00	111.86	104.72	97.58	90.44
CSMN50MF-50	Deluxe Molded Cable, DB50 Male / Female, 50.0 ft	194.00	182.36	170.72	159.08	147.44



Assembled vs molded D-Sub connectors

See the difference at L-com.com/BackshellConstruction

No more D-Sub connector gender confusion!



See The Video

www.L-com.com/Videos/A14



New

Item #

Description

1-9

10-24

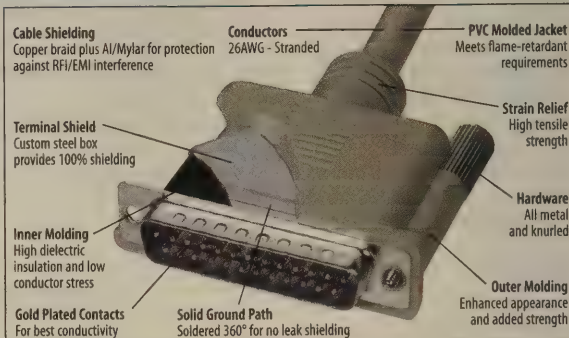
25-99

100-249 250-499

Premium D-Sub Cable Assemblies - Fully Populated and Double Shielded

The CS2N Series of D-Sub cable assemblies is our top of the line D-Sub cabling offering. These cables offer the best features for those applications where only the best will do. The bulk cable utilizes 26AWG stranded conductors with double shielding (copper braid plus aluminum mylar foil) and flexible PVC jacket. Fully molded backshells also have a unique stamped steel internal enclosure that provides the ultimate in shielding performance. Mounting is done via rugged 4-40 thumbscrews that are easy to grip without the need for a screwdriver. Hex nuts on female connectors are removable to expose 4-40 thumbscrews. Color: Light Gray.

More lengths available. Go to L-com.com



RoHS Premium 9 Pin, HD15, DB15 D-Sub Cables - Molded, Fully Populated and Double Shielded

Item #	Description	1-9	10-24	25-99	100-249	250-499
CS2N9MM-2.5	Premium Molded Cable, DB9 Male / Male, 2.5 ft	16.25	15.27	14.30	13.33	12.35
CS2N9MM-5	Premium Molded Cable, DB9 Male / Male, 5.0 ft	18.50	17.39	16.28	15.17	14.06
CS2N9MM-6	Premium Molded Cable, DB9 Male / Male, 6.0 ft	19.40	18.24	17.07	15.91	14.74
CS2N9MM-10	Premium Molded Cable, DB9 Male / Male, 10.0 ft	23.00	21.62	20.24	18.86	17.48
CS2N9MM-12	Premium Molded Cable, DB9 Male / Male, 12.0 ft	24.80	23.31	21.82	20.34	18.85
CS2N9MM-15	Premium Molded Cable, DB9 Male / Male, 15.0 ft	27.50	25.85	24.20	22.55	20.90
CS2N9MM-25	Premium Molded Cable, DB9 Male / Male, 25.0 ft	36.50	34.31	32.12	29.93	27.74
CS2N9MM-50	Premium Molded Cable, DB9 Male / Male, 50.0 ft	59.00	55.46	51.92	48.38	44.84
CS2N9MF-2.5	Premium Molded Cable, DB9 Male / Female, 2.5 ft	16.25	15.27	14.30	13.33	12.35
CS2N9MF-5	Premium Molded Cable, DB9 Male / Female, 5.0 ft	18.50	17.39	16.28	15.17	14.06
CS2N9MF-6	Premium Molded Cable, DB9 Male / Female, 6.0 ft	19.40	18.24	17.07	15.91	14.74
CS2N9MF-10	Premium Molded Cable, DB9 Male / Female, 10.0 ft	23.00	21.62	20.24	18.86	17.48
CS2N9MF-12	Premium Molded Cable, DB9 Male / Female, 12.0 ft	24.80	23.31	21.82	20.34	18.85
CS2N9MF-15	Premium Molded Cable, DB9 Male / Female, 15.0 ft	27.50	25.85	24.20	22.55	20.90
CS2N9MF-25	Premium Molded Cable, DB9 Male / Female, 25.0 ft	36.50	34.31	32.12	29.93	27.74
CS2N9MF-50	Premium Molded Cable, DB9 Male / Female, 50.0 ft	59.00	55.46	51.92	48.38	44.84
CS2H15MM-2.5	Premium Molded Cable, HD15 Male / Male, 2.5 ft	20.50	19.27	18.04	16.81	15.58
CS2H15MM-5	Premium Molded Cable, HD15 Male / Male, 5.0 ft	23.00	21.62	20.24	18.86	17.48
CS2H15MM-10	Premium Molded Cable, HD15 Male / Male, 10.0 ft	28.00	26.32	24.64	22.96	21.28
CS2H15MM-15	Premium Molded Cable, HD15 Male / Male, 15.0 ft	33.00	31.02	29.04	27.06	25.08
CS2H15MM-25	Premium Molded Cable, HD15 Male / Male, 25.0 ft	43.00	40.42	37.84	35.26	32.68
CS2H15MM-50	Premium Molded Cable, HD15 Male / Male, 50.0 ft	68.00	63.92	59.84	55.76	51.68
CS2H15MF-2.5	Premium Molded Cable, HD15 Male / Female, 2.5 ft	20.50	19.27	18.04	16.81	15.58
CS2H15MF-5	Premium Molded Cable, HD15 Male / Female, 5.0 ft	23.00	21.62	20.24	18.86	17.48
CS2H15MF-10	Premium Molded Cable, HD15 Male / Female, 10.0 ft	28.00	26.32	24.64	22.96	21.28
CS2H15MF-15	Premium Molded Cable, HD15 Male / Female, 15.0 ft	33.00	31.02	29.04	27.06	25.08
CS2H15MF-25	Premium Molded Cable, HD15 Male / Female, 25.0 ft	43.00	40.42	37.84	35.26	32.68
CS2H15MF-50	Premium Molded Cable, HD15 Male / Female, 50.0 ft	68.00	63.92	59.84	55.76	51.68
CS2N15MM-2.5	Premium Molded Cable, DB15 Male / Male, 2.5 ft	20.40	19.18	17.95	16.73	15.50
CS2N15MM-5	Premium Molded Cable, DB15 Male / Male, 5.0 ft	22.00	20.68	19.36	18.04	16.72
CS2N15MM-10	Premium Molded Cable, DB15 Male / Male, 10.0 ft	25.50	23.97	22.44	20.91	19.38
CS2N15MM-15	Premium Molded Cable, DB15 Male / Male, 15.0 ft	29.00	27.26	25.52	23.78	22.04
CS2N15MM-25	Premium Molded Cable, DB15 Male / Male, 25.0 ft	36.00	33.84	31.68	29.52	27.36
CS2N15MM-50	Premium Molded Cable, DB15 Male / Male, 50.0 ft	53.50	50.29	47.08	43.87	40.66
CS2N15MF-2.5	Premium Molded Cable, DB15 Male / Female, 2.5 ft	20.40	19.18	17.95	16.73	15.50
CS2N15MF-5	Premium Molded Cable, DB15 Male / Female, 5.0 ft	22.00	20.68	19.36	18.04	16.72
CS2N15MF-10	Premium Molded Cable, DB15 Male / Female, 10.0 ft	25.50	23.97	22.44	20.91	19.38
CS2N15MF-15	Premium Molded Cable, DB15 Male / Female, 15.0 ft	29.00	27.26	25.52	23.78	22.04
CS2N15MF-25	Premium Molded Cable, DB15 Male / Female, 25.0 ft	36.00	33.84	31.68	29.52	27.36
CS2N15MF-50	Premium Molded Cable, DB15 Male / Female, 50.0 ft	53.50	50.29	47.08	43.87	40.66

RoHS Premium 25 and 37 Pin D-Sub Cables - Molded, Fully Populated and Double Shielded

Item #	Description	1-9	10-24	25-99	100-249	250-499
CS2N25MM-2.5	Premium Molded Cable, DB25 Male / Male, 2.5 ft	22.50	21.15	19.80	18.45	17.10
CS2N25MM-5	Premium Molded Cable, DB25 Male / Male, 5.0 ft	25.00	23.50	22.00	20.50	19.00
CS2N25MM-6	Premium Molded Cable, DB25 Male / Male, 6.0 ft	26.00	24.44	22.88	21.32	19.76
CS2N25MM-10	Premium Molded Cable, DB25 Male / Male, 10.0 ft	30.00	28.20	26.40	24.60	22.80
CS2N25MM-12	Premium Molded Cable, DB25 Male / Male, 12.0 ft	32.00	30.08	28.16	26.24	24.32
CS2N25MM-15	Premium Molded Cable, DB25 Male / Male, 15.0 ft	35.00	32.90	30.80	28.70	26.60
CS2N25MM-25	Premium Molded Cable, DB25 Male / Male, 25.0 ft	45.00	42.30	39.60	36.90	34.20
CS2N25MM-50	Premium Molded Cable, DB25 Male / Male, 50.0 ft	70.00	65.80	61.60	57.40	53.20
CS2N25MF-2.5	Premium Molded Cable, DB25 Male / Female, 2.5 ft	22.50	21.15	19.80	18.45	17.10
CS2N25MF-5	Premium Molded Cable, DB25 Male / Female, 5.0 ft	25.00	23.50	22.00	20.50	19.00
CS2N25MF-6	Premium Molded Cable, DB25 Male / Female, 6.0 ft	26.00	24.44	22.88	21.32	19.76
CS2N25MF-10	Premium Molded Cable, DB25 Male / Female, 10.0 ft	30.00	28.20	26.40	24.60	22.80
CS2N25MF-12	Premium Molded Cable, DB25 Male / Female, 12.0 ft	32.00	30.08	28.16	26.24	24.32
CS2N25MF-15	Premium Molded Cable, DB25 Male / Female, 15.0 ft	35.00	32.90	30.80	28.70	26.60
CS2N25MF-25	Premium Molded Cable, DB25 Male / Female, 25.0 ft	45.00	42.30	39.60	36.90	34.20
CS2N25MF-50	Premium Molded Cable, DB25 Male / Female, 50.0 ft	70.00	65.80	61.60	57.40	53.20
CS2N37MM-2.5	Premium Molded Cable, DB37 Male / Male, 2.5 ft	38.75	36.42	34.10	31.78	29.45
CS2N37MM-5	Premium Molded Cable, DB37 Male / Male, 5.0 ft	42.50	39.95	37.40	34.85	32.30
CS2N37MM-10	Premium Molded Cable, DB37 Male / Male, 10.0 ft	50.00	47.00	44.00	41.00	38.00
CS2N37MM-25	Premium Molded Cable, DB37 Male / Male, 25.0 ft	72.50	68.15	63.80	59.45	55.10
CS2N37MM-50	Premium Molded Cable, DB37 Male / Male, 50.0 ft	110.00	103.40	96.80	90.20	83.60
CS2N37MF-2.5	Premium Molded Cable, DB37 Male / Female, 2.5 ft	38.75	36.42	34.10	31.78	29.45
CS2N37MF-5	Premium Molded Cable, DB37 Male / Female, 5.0 ft	42.50	39.95	37.40	34.85	32.30
CS2N37MF-10	Premium Molded Cable, DB37 Male / Female, 10.0 ft	50.00	47.00	44.00	41.00	38.00
CS2N37MF-25	Premium Molded Cable, DB37 Male / Female, 25.0 ft	72.50	68.15	63.80	59.45	55.10
CS2N37MF-50	Premium Molded Cable, DB37 Male / Female, 50.0 ft	110.00	103.40	96.80	90.20	83.60



Item #	Description	1-9	10-24	25-99	100-249	250-499
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Data Cables - With Reversible Hardware to Mate Any Serial Cables or Mount on Panels

L-com is proud to offer an **exclusive family** of D-Sub data cables featuring user defined mounting hardware. Each cable end is capable of being connected with either male jack screws or female hex standoffs regardless of D-Sub gender. This capability allows a user much more flexibility to interface ports with opposite gender hardware. A by-product feature is to use the same cable with the male or female connector end mounted on a panel. No other standard off-the-shelf cable has this capability. The secret is in the kit of four custom hex standoffs that are included with each cable assembly. The specially made cable readily accepts these hex standoffs mounting on panels no thicker than 0.062".

RoHS Reversing Hardware 9 Pin D-Sub Cables - Are Shielded and Fully Populated

CRMN9MM-2.5	Reversible Hardware Molded Cable, DB9 Male / Male, 2.5 ft	14.75	13.57	12.39	11.21	10.03
CRMN9MM-5	Reversible Hardware Molded Cable, DB9 Male / Male, 5.0 ft	15.75	14.49	13.23	11.97	10.71
CRMN9MM-10	Reversible Hardware Molded Cable, DB9 Male / Male, 10.0 ft	17.50	16.10	14.70	13.30	11.90
CRMN9MM-15	Reversible Hardware Molded Cable, DB9 Male / Male, 15.0 ft	19.25	17.71	16.17	14.63	13.09
CRMN9MM-25	Reversible Hardware Molded Cable, DB9 Male / Male, 25.0 ft	22.75	20.93	19.11	17.29	15.47
CRMN9MF-2.5	Reversible Hardware Molded Cable, DB9 Male / Female, 2.5 ft	14.75	13.57	12.39	11.21	10.03
CRMN9MF-5	Reversible Hardware Molded Cable, DB9 Male / Female, 5.0 ft	15.75	14.49	13.23	11.97	10.71
CRMN9MF-10	Reversible Hardware Molded Cable, DB9 Male / Female, 10.0 ft	17.50	16.10	14.70	13.30	11.90
CRMN9MF-15	Reversible Hardware Molded Cable, DB9 Male / Female, 15.0 ft	19.25	17.71	16.17	14.63	13.09
CRMN9MF-25	Reversible Hardware Molded Cable, DB9 Male / Female, 25.0 ft	22.75	20.93	19.11	17.29	15.47
CRMN9FF-2.5	Reversible Hardware Molded Cable, DB9 Female / Female, 2.5 ft	14.75	13.57	12.39	11.21	10.03
CRMN9FF-5	Reversible Hardware Molded Cable, DB9 Female / Female, 5.0 ft	15.75	14.49	13.23	11.97	10.71
CRMN9FF-10	Reversible Hardware Molded Cable, DB9 Female / Female, 10.0 ft	17.50	16.10	14.70	13.30	11.90
CRMN9FF-15	Reversible Hardware Molded Cable, DB9 Female / Female, 15.0 ft	19.25	17.71	16.17	14.63	13.09
CRMN9FF-25	Reversible Hardware Molded Cable, DB9 Female / Female, 25.0 ft	22.75	20.93	19.11	17.29	15.47

RoHS Reversing Hardware 15 Pin D-Sub Cables - Are Shielded and Fully Populated

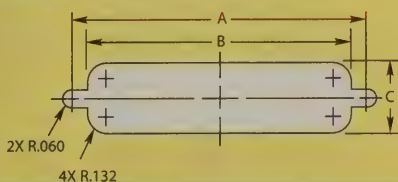
CRMN15MM-2.5	Reversible Hardware Molded Cable, DB15 Male / Male, 2.5 ft	18.00	16.56	15.12	13.68	12.24
CRMN15MM-5	Reversible Hardware Molded Cable, DB15 Male / Male, 5.0 ft	19.25	17.71	16.17	14.63	13.09
CRMN15MM-10	Reversible Hardware Molded Cable, DB15 Male / Male, 10.0 ft	21.50	19.78	18.06	16.34	14.62
CRMN15MM-15	Reversible Hardware Molded Cable, DB15 Male / Male, 15.0 ft	23.75	21.85	19.95	18.05	16.15
CRMN15MF-2.5	Reversible Hardware Molded Cable, DB15 Male / Female, 2.5 ft	18.00	16.56	15.12	13.68	12.24
CRMN15MF-5	Reversible Hardware Molded Cable, DB15 Male / Female, 5.0 ft	19.25	17.71	16.17	14.63	13.09
CRMN15MF-10	Reversible Hardware Molded Cable, DB15 Male / Female, 10.0 ft	21.50	19.78	18.06	16.34	14.62
CRMN15MF-15	Reversible Hardware Molded Cable, DB15 Male / Female, 15.0 ft	23.75	21.85	19.95	18.05	16.15
CRMN15FF-2.5	Reversible Hardware Molded Cable, DB15 Female / Female, 2.5 ft	18.00	16.56	15.12	13.68	12.24
CRMN15FF-5	Reversible Hardware Molded Cable, DB15 Female / Female, 5.0 ft	19.25	17.71	16.17	14.63	13.09
CRMN15FF-10	Reversible Hardware Molded Cable, DB15 Female / Female, 10.0 ft	21.50	19.78	18.06	16.34	14.62
CRMN15FF-15	Reversible Hardware Molded Cable, DB15 Female / Female, 15.0 ft	23.75	21.85	19.95	18.05	16.15

RoHS Reversing Hardware 25 Pin D-Sub Cables - Are Shielded and Fully Populated

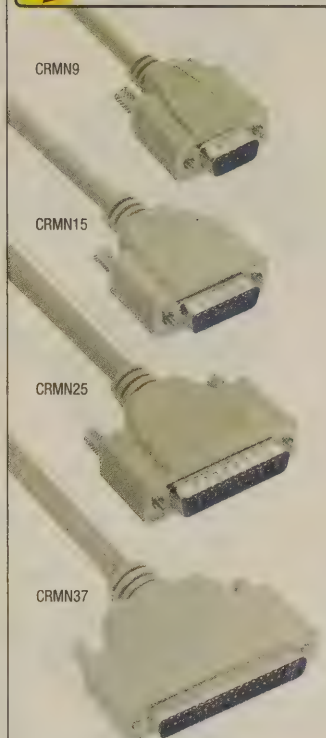
CRMN25MM-2.5	Reversible Hardware Molded Cable, DB25 Male / Male, 2.5 ft	21.50	19.78	18.06	16.34	14.62
CRMN25MM-5	Reversible Hardware Molded Cable, DB25 Male / Male, 5.0 ft	23.25	21.39	19.53	17.67	15.81
CRMN25MM-10	Reversible Hardware Molded Cable, DB25 Male / Male, 10.0 ft	26.50	24.38	22.26	20.14	18.02
CRMN25MM-15	Reversible Hardware Molded Cable, DB25 Male / Male, 15.0 ft	29.75	27.37	24.99	22.61	20.23
CRMN25MM-25	Reversible Hardware Molded Cable, DB25 Male / Male, 25.0 ft	36.25	33.35	30.45	27.55	24.65
CRMN25MF-2.5	Reversible Hardware Molded Cable, DB25 Male / Female, 2.5 ft	21.50	19.78	18.06	16.34	14.62
CRMN25MF-5	Reversible Hardware Molded Cable, DB25 Male / Female, 5.0 ft	23.25	21.39	19.53	17.67	15.81
CRMN25MF-10	Reversible Hardware Molded Cable, DB25 Male / Female, 10.0 ft	26.50	24.38	22.26	20.14	18.02
CRMN25MF-15	Reversible Hardware Molded Cable, DB25 Male / Female, 15.0 ft	29.75	27.37	24.99	22.61	20.23
CRMN25MF-25	Reversible Hardware Molded Cable, DB25 Male / Female, 25.0 ft	36.25	33.35	30.45	27.55	24.65
CRMN25FF-2.5	Reversible Hardware Molded Cable, DB25 Female / Female, 2.5 ft	21.50	19.78	18.06	16.34	14.62
CRMN25FF-5	Reversible Hardware Molded Cable, DB25 Female / Female, 5.0 ft	23.25	21.39	19.53	17.67	15.81
CRMN25FF-10	Reversible Hardware Molded Cable, DB25 Female / Female, 10.0 ft	26.50	24.38	22.26	20.14	18.02
CRMN25FF-15	Reversible Hardware Molded Cable, DB25 Female / Female, 15.0 ft	29.75	27.37	24.99	22.61	20.23
CRMN25FF-25	Reversible Hardware Molded Cable, DB25 Female / Female, 25.0 ft	36.25	33.35	30.45	27.55	24.65

RoHS Reversing Hardware 37 Pin D-Sub Cables - Are Shielded and Fully Populated

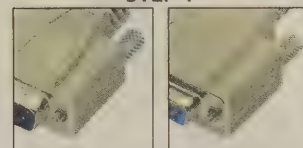
CRMN37MM-2.5	Reversible Hardware Molded Cable, DB37 Male / Male, 2.5 ft	34.25	31.51	28.77	26.03	23.29
CRMN37MM-5	Reversible Hardware Molded Cable, DB37 Male / Male, 5.0 ft	36.75	33.81	30.87	27.93	24.99
CRMN37MM-10	Reversible Hardware Molded Cable, DB37 Male / Male, 10.0 ft	41.50	38.18	34.86	31.54	28.22
CRMN37MM-15	Reversible Hardware Molded Cable, DB37 Male / Male, 15.0 ft	46.25	42.55	38.85	35.15	31.45
CRMN37MM-25	Reversible Hardware Molded Cable, DB37 Male / Male, 25.0 ft	55.75	51.29	46.83	42.37	37.91
CRMN37MF-2.5	Reversible Hardware Molded Cable, DB37 Male / Female, 2.5 ft	34.25	31.51	28.77	26.03	23.29
CRMN37MF-5	Reversible Hardware Molded Cable, DB37 Male / Female, 5.0 ft	36.75	33.81	30.87	27.93	24.99
CRMN37MF-10	Reversible Hardware Molded Cable, DB37 Male / Female, 10.0 ft	41.50	38.18	34.86	31.54	28.22
CRMN37MF-15	Reversible Hardware Molded Cable, DB37 Male / Female, 15.0 ft	46.25	42.55	38.85	35.15	31.45
CRMN37MF-25	Reversible Hardware Molded Cable, DB37 Male / Female, 25.0 ft	55.75	51.29	46.83	42.37	37.91
CRMN37FF-2.5	Reversible Hardware Molded Cable, DB37 Female / Female, 2.5 ft	34.25	31.51	28.77	26.03	23.29
CRMN37FF-5	Reversible Hardware Molded Cable, DB37 Female / Female, 5.0 ft	36.75	33.81	30.87	27.93	24.99
CRMN37FF-10	Reversible Hardware Molded Cable, DB37 Female / Female, 10.0 ft	41.50	38.18	34.86	31.54	28.22
CRMN37FF-15	Reversible Hardware Molded Cable, DB37 Female / Female, 15.0 ft	46.25	42.55	38.85	35.15	31.45
CRMN37FF-25	Reversible Hardware Molded Cable, DB37 Female / Female, 25.0 ft	55.75	51.29	46.83	42.37	37.91

**Tip****Recommended panel openings for rear mounted D-Sub adapters**

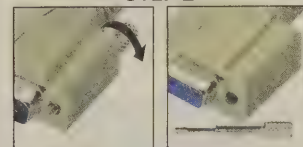
PANEL MOUNTING DIMENSIONS (shown in inches)			
CONTACTS	DIM. A	DIM. B	DIM. C
DB9 or HD15	0.984	0.806	.449
DB15 or HD26	1.312	1.134	.449
DB25 or HD44	1.852	1.684	.449
DB37 or HD62	2.500	2.326	.449
DB50 or HD78	2.406	2.218	.555

L-com Exclusive

Comes complete with male and female 4-40 hardware.

STEP 1

This cable is shipped with male knurled thumbscrews regardless of D-Sub gender.

STEP 2

If you need a Female fastening system, simply unscrew the knurled thumbscrew.

STEP 3

Then: install (thread) hex jack screws provided with an instruction sheet.

STEP 4

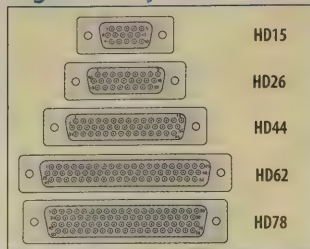
To install your cable on a panel it should be no thicker than 0.062". Simply follow step 2. Provide proper panel opening, install the hex jack screw and tighten.

**Distinguishing between male and female D-Sub connectors**

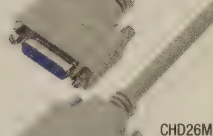
See the free video tip and more at
L-com.com/Videos/A14

L-com Global Connectivity

High-Density Connections



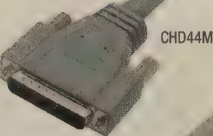
CHD15MF



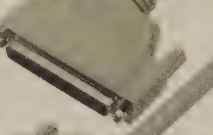
CHD26MF



CHD44MF



CHD62MF



CHD78MF

Item #	Description	1-9	10-24	25-99	100-249	250-499
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✓RoHS Deluxe High-Density 15 Pin D-Sub Cables - Fully Populated and Completely Shielded

High-density D-Sub connectors are used in a number of PC and network applications. This type of connector can usually be recognized because they have three rows of smaller pins versus the larger pins used in conventional D-Subs. Fully populated with stranded conductors and aluminum mylar shielding. Hex nuts on female connectors are removable to expose 4-40 thumbscrews.

CHD15MM-2.5	Deluxe Molded Cable, HD15 Male / Male, 2.5 ft	10.90	10.25	9.59	8.94	8.28
CHD15MM-5	Deluxe Molded Cable, HD15 Male / Male, 5.0 ft	11.75	11.05	10.34	9.64	8.93
CHD15MM-7.5	Deluxe Molded Cable, HD15 Male / Male, 7.5 ft	12.65	11.89	11.13	10.37	9.61
CHD15MM-10	Deluxe Molded Cable, HD15 Male / Male, 10.0 ft	13.50	12.69	11.88	11.07	10.26
CHD15MM-15	Deluxe Molded Cable, HD15 Male / Male, 15.0 ft	15.25	14.34	13.42	12.51	11.59
CHD15MM-25	Deluxe Molded Cable, HD15 Male / Male, 25.0 ft	17.00	15.98	14.96	13.94	12.92
CHD15MF-2.5	Deluxe Molded Cable, HD15 Male / Female, 2.5 ft	10.90	10.25	9.59	8.94	8.28
CHD15MF-5	Deluxe Molded Cable, HD15 Male / Female, 5.0 ft	11.75	11.05	10.34	9.64	8.93
CHD15MF-7.5	Deluxe Molded Cable, HD15 Male / Female, 7.5 ft	12.65	11.89	11.13	10.37	9.61
CHD15MF-10	Deluxe Molded Cable, HD15 Male / Female, 10.0 ft	13.50	12.69	11.88	11.07	10.26
CHD15MF-15	Deluxe Molded Cable, HD15 Male / Female, 15.0 ft	15.25	14.34	13.42	12.51	11.59
CHD15MF-25	Deluxe Molded Cable, HD15 Male / Female, 25.0 ft	17.00	15.98	14.96	13.94	12.92

Note: Most monitor manufacturers recommend using premium grade VGA cables that utilize 75 Ohm coaxial lines.

✓RoHS Deluxe High-Density 26 Pin Molded Cables - Ready Made, Fully Populated for Many Applications

Fully molded data cables equipped with high-density D-Sub connectors. Fully populated with 26AWG stranded conductors and aluminum mylar shielding. They are equipped with readily accessible thumbscrew type hold downs. Hex nuts on female connectors are removable to expose 4-40 thumbscrews.

CHD26MM-2.5	Deluxe Molded Cable, HD26 Male / Male, 2.5 ft	24.90	23.41	21.91	20.42	18.92
CHD26MM-5	Deluxe Molded Cable, HD26 Male / Male, 5.0 ft	26.75	25.15	23.54	21.94	20.33
CHD26MM-10	Deluxe Molded Cable, HD26 Male / Male, 10.0 ft	30.50	28.67	26.84	25.01	23.18
CHD26MM-15	Deluxe Molded Cable, HD26 Male / Male, 15.0 ft	34.25	32.20	30.14	28.08	26.03
CHD26MF-2.5	Deluxe Molded Cable, HD26 Male / Female, 2.5 ft	24.90	23.41	21.91	20.42	18.92
CHD26MF-5	Deluxe Molded Cable, HD26 Male / Female, 5.0 ft	26.75	25.15	23.54	21.94	20.33
CHD26MF-10	Deluxe Molded Cable, HD26 Male / Female, 10.0 ft	30.50	28.67	26.84	25.01	23.18
CHD26MF-15	Deluxe Molded Cable, HD26 Male / Female, 15.0 ft	34.25	32.20	30.14	28.08	26.03
CHD26MF-25	Deluxe Molded Cable, HD26 Male / Female, 25.0 ft	41.75	39.24	36.74	34.24	31.73
CHD26MF-50	Deluxe Molded Cable, HD26 Male / Female, 50.0 ft	60.50	56.87	53.24	49.61	45.98

✓RoHS Deluxe High-Density 44 Pin Molded Cables - Fully Populated and Shielded

Injection molded cable assemblies with HD44 terminations. Fully populated with 24AWG stranded conductors and aluminum mylar and braided shielding. 4-40 metal thumbscrews molded into the strain relief. Hex nuts on female connectors are removable to expose 4-40 thumbscrews.

CHD44MM-2.5	Deluxe Molded Cable, HD44 Male / Male, 2.5 ft	40.50	38.07	35.64	33.21	30.78
CHD44MM-5	Deluxe Molded Cable, HD44 Male / Male, 5.0 ft	48.00	45.12	42.24	39.36	36.48
CHD44MM-10	Deluxe Molded Cable, HD44 Male / Male, 10.0 ft	63.00	59.22	55.44	51.66	47.88
CHD44MM-15	Deluxe Molded Cable, HD44 Male / Male, 15.0 ft	78.00	73.32	68.64	63.96	59.28
CHD44MM-25	Deluxe Molded Cable, HD44 Male / Male, 25.0 ft	108.00	101.52	95.04	88.56	82.08
CHD44MM-50	Deluxe Molded Cable, HD44 Male / Male, 50.0 ft	183.00	172.02	161.04	150.06	139.08
CHD44MF-2.5	Deluxe Molded Cable, HD44 Male / Female, 2.5 ft	40.50	38.07	35.64	33.21	30.78
CHD44MF-5	Deluxe Molded Cable, HD44 Male / Female, 5.0 ft	48.00	45.12	42.24	39.36	36.48
CHD44MF-10	Deluxe Molded Cable, HD44 Male / Female, 10.0 ft	63.00	59.22	55.44	51.66	47.88
CHD44MF-15	Deluxe Molded Cable, HD44 Male / Female, 15.0 ft	78.00	73.32	68.64	63.96	59.28
CHD44MF-25	Deluxe Molded Cable, HD44 Male / Female, 25.0 ft	108.00	101.52	95.04	88.56	82.08
CHD44MF-50	Deluxe Molded Cable, HD44 Male / Female, 50.0 ft	183.00	172.02	161.04	150.06	139.08

✓RoHS Deluxe High-Density 62 Pin Molded Cables - 31 Twisted Pairs and Full Shielding

Fully molded data cables with HD62 D-Sub connectors. Fully shielded with aluminum mylar shielding and fully populated with 28AWG twisted pairs. Straight-thru pinning. Equipped with 4-40 thumbscrews. Hex nuts on female connectors are removable to expose 4-40 thumbscrews.

CHD62MM-2.5	Deluxe Molded Cable, HD62 Male / Male, 2.5 ft	52.50	49.35	46.20	43.05	39.90
CHD62MM-5	Deluxe Molded Cable, HD62 Male / Male, 5.0 ft	62.50	58.75	55.00	51.25	47.50
CHD62MM-10	Deluxe Molded Cable, HD62 Male / Male, 10.0 ft	82.50	77.55	72.60	67.65	62.70
CHD62MM-15	Deluxe Molded Cable, HD62 Male / Male, 15.0 ft	102.50	96.35	90.20	84.05	77.90
CHD62MM-25	Deluxe Molded Cable, HD62 Male / Male, 25.0 ft	122.50	115.15	107.80	100.45	93.10
CHD62MM-50	Deluxe Molded Cable, HD62 Male / Male, 50.0 ft	222.50	209.15	195.80	182.45	169.10
CHD62MF-2.5	Deluxe Molded Cable, HD62 Male / Female, 2.5 ft	52.50	49.35	46.20	43.05	39.90
CHD62MF-5	Deluxe Molded Cable, HD62 Male / Female, 5.0 ft	62.50	58.75	55.00	51.25	47.50
CHD62MF-10	Deluxe Molded Cable, HD62 Male / Female, 10.0 ft	82.50	77.55	72.60	67.65	62.70
CHD62MF-15	Deluxe Molded Cable, HD62 Male / Female, 15.0 ft	102.50	96.35	90.20	84.05	77.90
CHD62MF-25	Deluxe Molded Cable, HD62 Male / Female, 25.0 ft	122.50	115.15	107.80	100.45	93.10
CHD62MF-50	Deluxe Molded Cable, HD62 Male / Female, 50.0 ft	222.50	209.15	195.80	182.45	169.10

✓RoHS Deluxe High-Density 78 Pin Molded Cables - 39 Twisted Pairs and Double Shielded

Fully molded data cables equipped with HD78 D-Sub connectors. Fully shielded with aluminum mylar and braided shielding and fully populated with 28AWG twisted pairs. Straight-thru pinning. Equipped with 4-40 thumbscrews. Hex nuts on female connectors are removable to expose 4-40 thumbscrews.

CHD78MM-2.5	Deluxe Molded Cable, HD78 Male / Male, 2.5 ft	57.50	54.05	50.60	47.15	43.70
CHD78MM-5	Deluxe Molded Cable, HD78 Male / Male, 5.0 ft	70.00	65.80	61.60	57.40	53.20
CHD78MM-10	Deluxe Molded Cable, HD78 Male / Male, 10.0 ft	95.00	89.30	83.60	77.90	72.20
CHD78MM-25	Deluxe Molded Cable, HD78 Male / Male, 25.0 ft	170.00	159.80	149.60	139.40	129.20
CHD78MM-50	Deluxe Molded Cable, HD78 Male / Male, 50.0 ft	295.00	277.30	259.60	241.90	224.20
CHD78MF-2.5	Deluxe Molded Cable, HD78 Male / Female, 2.5 ft	57.50	54.05	50.60	47.15	43.70
CHD78MF-5	Deluxe Molded Cable, HD78 Male / Female, 5.0 ft	70.00	65.80	61.60	57.40	53.20
CHD78MF-10	Deluxe Molded Cable, HD78 Male / Female, 10.0 ft	95.00	89.30	83.60	77.90	72.20
CHD78MF-25	Deluxe Molded Cable, HD78 Male / Female, 25.0 ft	170.00	159.80	149.60	139.40	129.20
CHD78MF-50	Deluxe Molded Cable, HD78 Male / Female, 50.0 ft	295.00	277.30	259.60	241.90	224.20

Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
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Deluxe Molded Black D-Sub Cables

These cables give the user the option to color match to black equipment and are constructed identically to our popular CSMN light gray cable series. See the cut-away diagram on page 59 for details.

RoHS Deluxe 9 Pin D-Sub Molded Cables - Shielded and Fully Populated

CSMNB9MM-2.5	Deluxe Molded Cable, DB9 Male / Male, 2.5 ft	Black	7.50	6.90	6.30	5.70	5.10
CSMNB9MM-5	Deluxe Molded Cable, DB9 Male / Male, 5.0 ft	Black	8.75	8.05	7.35	6.65	5.95
CSMNB9MM-10	Deluxe Molded Cable, DB9 Male / Male, 10.0 ft	Black	11.25	10.35	9.45	8.55	7.65
CSMNB9MM-15	Deluxe Molded Cable, DB9 Male / Male, 15.0 ft	Black	13.75	12.65	11.55	10.45	9.35
CSMNB9MM-25	Deluxe Molded Cable, DB9 Male / Male, 25.0 ft	Black	18.75	17.25	15.75	14.25	12.75
CSMNB9MM-50	Deluxe Molded Cable, DB9 Male / Male, 50.0 ft	Black	31.25	28.75	26.25	23.75	21.25
CSMNB9MF-2.5	Deluxe Molded Cable, DB9 Male / Female, 2.5 ft	Black	7.50	6.90	6.30	5.70	5.10
CSMNB9MF-5	Deluxe Molded Cable, DB9 Male / Female, 5.0 ft	Black	8.75	8.05	7.35	6.65	5.95
CSMNB9MF-10	Deluxe Molded Cable, DB9 Male / Female, 10.0 ft	Black	11.25	10.35	9.45	8.55	7.65
CSMNB9MF-15	Deluxe Molded Cable, DB9 Male / Female, 15.0 ft	Black	13.75	12.65	11.55	10.45	9.35
CSMNB9MF-25	Deluxe Molded Cable, DB9 Male / Female, 25.0 ft	Black	18.75	17.25	15.75	14.25	12.75
CSMNB9MF-50	Deluxe Molded Cable, DB9 Male / Female, 50.0 ft	Black	31.25	28.75	26.25	23.75	21.25

RoHS Deluxe 15 Pin D-Sub Molded Cables - Shielded and Fully Populated

CSMNB15MM-2.5	Deluxe Molded Cable, DB15 Male / Male, 2.5 ft	Black	11.25	10.58	9.90	9.23	8.55
CSMNB15MM-5	Deluxe Molded Cable, DB15 Male / Male, 5.0 ft	Black	12.75	11.99	11.22	10.46	9.69
CSMNB15MM-10	Deluxe Molded Cable, DB15 Male / Male, 10.0 ft	Black	15.75	14.81	13.86	12.92	11.97
CSMNB15MM-15	Deluxe Molded Cable, DB15 Male / Male, 15.0 ft	Black	18.75	17.63	16.50	15.37	14.25
CSMNB15MM-25	Deluxe Molded Cable, DB15 Male / Male, 25.0 ft	Black	24.75	23.26	21.78	20.29	18.81
CSMNB15MM-50	Deluxe Molded Cable, DB15 Male / Male, 50.0 ft	Black	39.75	37.36	34.98	32.60	30.21
CSMNB15MF-2.5	Deluxe Molded Cable, DB15 Male / Female, 2.5 ft	Black	11.25	10.58	9.90	9.23	8.55
CSMNB15MF-5	Deluxe Molded Cable, DB15 Male / Female, 5.0 ft	Black	12.75	11.99	11.22	10.46	9.69
CSMNB15MF-10	Deluxe Molded Cable, DB15 Male / Female, 10.0 ft	Black	15.75	14.81	13.86	12.92	11.97
CSMNB15MF-15	Deluxe Molded Cable, DB15 Male / Female, 15.0 ft	Black	18.75	17.63	16.50	15.37	14.25
CSMNB15MF-25	Deluxe Molded Cable, DB15 Male / Female, 25.0 ft	Black	24.75	23.26	21.78	20.29	18.81
CSMNB15MF-50	Deluxe Molded Cable, DB15 Male / Female, 50.0 ft	Black	39.75	37.36	34.98	32.60	30.21

RoHS Deluxe 25 Pin D-Sub Molded Cables - Shielded and Fully Populated

CSMNB25MM-2.5	Deluxe Molded Cable, DB25 Male / Male, 2.5 ft	Black	9.75	8.97	8.19	7.41	6.63
CSMNB25MM-5	Deluxe Molded Cable, DB25 Male / Male, 5.0 ft	Black	10.75	9.89	9.03	8.17	7.31
CSMNB25MM-10	Deluxe Molded Cable, DB25 Male / Male, 10.0 ft	Black	12.75	11.73	10.71	9.69	8.67
CSMNB25MM-15	Deluxe Molded Cable, DB25 Male / Male, 15.0 ft	Black	14.75	13.57	12.39	11.21	10.03
CSMNB25MM-25	Deluxe Molded Cable, DB25 Male / Male, 25.0 ft	Black	18.75	17.25	15.75	14.25	12.75
CSMNB25MM-50	Deluxe Molded Cable, DB25 Male / Male, 50.0 ft	Black	28.75	26.45	24.15	21.85	19.55
CSMNB25MF-2.5	Deluxe Molded Cable, DB25 Male / Female, 2.5 ft	Black	9.75	8.97	8.19	7.41	6.63
CSMNB25MF-5	Deluxe Molded Cable, DB25 Male / Female, 5.0 ft	Black	10.75	9.89	9.03	8.17	7.31
CSMNB25MF-10	Deluxe Molded Cable, DB25 Male / Female, 10.0 ft	Black	12.75	11.73	10.71	9.69	8.67
CSMNB25MF-15	Deluxe Molded Cable, DB25 Male / Female, 15.0 ft	Black	14.75	13.57	12.39	11.21	10.03
CSMNB25MF-25	Deluxe Molded Cable, DB25 Male / Female, 25.0 ft	Black	18.75	17.25	15.75	14.25	12.75
CSMNB25MF-50	Deluxe Molded Cable, DB25 Male / Female, 50.0 ft	Black	28.75	26.45	24.15	21.85	19.55

Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
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Low Smoke Zero Halogen (LSZH) D-Sub Cable Assemblies, DB9 and DB25

L-com leads the industry with our variety of off the shelf Low Smoke Zero Halogen cable assemblies. Low Smoke Zero Halogen cable reduces the amount of toxic and corrosive gasses emitted during combustion. Used in poorly ventilated areas, Low Smoke Zero Halogen is very popular with military contractors and anywhere the protection of people and equipment from toxic and corrosive gasses is critical. Low Smoke Zero Halogen D-Sub cable assemblies are available in DB9 and DB25 connector sizes with male to male and male to female configurations. This design features an attractive injection molded backshell with 4-40 threaded thumbscrews. A stamped steel internal shell insures a strong strain relief and provides superior protection against EMI/RFI. The LSZH cable is foil/braid shielded with 24AWG stranded conductors. Color: Black. L-com will manufacture custom cable assemblies with modest minimum requirements.

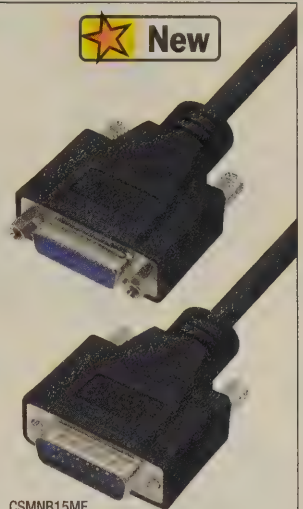
RoHS Low Smoke Zero Halogen 9 Pin D-Sub Cables - Fully Populated and Double Shielded

CSMUZ9MM-2.5	LSZH Cable, DB9 Male / Male, 2.5 ft	30.00	28.80	27.60	26.40	25.20
CSMUZ9MM-5	LSZH Cable, DB9 Male / Male, 5.0 ft	33.75	32.40	31.05	29.70	28.35
CSMUZ9MM-10	LSZH Cable, DB9 Male / Male, 10.0 ft	41.25	39.60	37.95	36.30	34.65
CSMUZ9MM-15	LSZH Cable, DB9 Male / Male, 15.0 ft	48.75	46.80	44.85	42.90	40.95
CSMUZ9MM-25	LSZH Cable, DB9 Male / Male, 25.0 ft	56.25	51.75	47.25	42.75	38.25
CSMUZ9MM-50	LSZH Cable, DB9 Male / Male, 50.0 ft	93.75	90.00	86.25	82.50	78.75
CSMUZ9MM-125	LSZH Cable, DB9 Male / Male, 125.0 ft	206.25	198.00	189.75	181.50	173.25
CSMUZ9MF-2.5	LSZH Cable, DB9 Male / Female, 2.5 ft	30.00	28.80	27.60	26.40	25.20
CSMUZ9MF-5	LSZH Cable, DB9 Male / Female, 5.0 ft	33.75	32.40	31.05	29.70	28.35
CSMUZ9MF-10	LSZH Cable, DB9 Male / Female, 10.0 ft	41.25	39.60	37.95	36.30	34.65
CSMUZ9MF-15	LSZH Cable, DB9 Male / Female, 15.0 ft	48.75	46.80	44.85	42.90	40.95
CSMUZ9MF-25	LSZH Cable, DB9 Male / Female, 25.0 ft	56.25	54.00	51.75	49.50	47.25
CSMUZ9MF-50	LSZH Cable, DB9 Male / Female, 50.0 ft	93.75	90.00	86.25	82.50	78.75
CSMUZ9MF-125	LSZH Cable, DB9 Male / Female, 125.0 ft	206.25	198.00	189.75	181.50	173.25

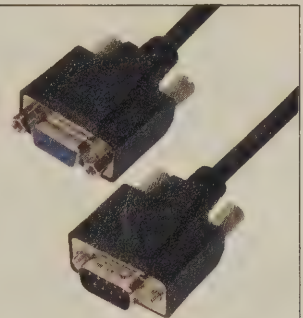
RoHS Low Smoke Zero Halogen 25 Pin D-Sub Cables - Fully Populated and Double Shielded

CSMUZ25MM-2.5	LSZH Cable, DB25 Male / Male, 2.5 ft	37.50	36.00	34.50	33.00	31.50
CSMUZ25MM-5	LSZH Cable, DB25 Male / Male, 5.0 ft	45.00	43.20	41.40	39.60	37.80
CSMUZ25MM-10	LSZH Cable, DB25 Male / Male, 10.0 ft	60.00	57.60	55.20	52.80	50.40
CSMUZ25MM-15	LSZH Cable, DB25 Male / Male, 15.0 ft	75.00	72.00	69.00	66.00	63.00
CSMUZ25MM-25	LSZH Cable, DB25 Male / Male, 25.0 ft	90.00	86.40	82.80	79.20	75.60
CSMUZ25MM-50	LSZH Cable, DB25 Male / Male, 50.0 ft	165.00	158.40	151.80	145.20	138.60
CSMUZ25MM-125	LSZH Cable, DB25 Male / Male, 125.0 ft	390.00	374.40	358.80	343.20	327.60
CSMUZ25MF-2.5	LSZH Cable, DB25 Male / Female, 2.5 ft	37.50	36.00	34.50	33.00	31.50
CSMUZ25MF-5	LSZH Cable, DB25 Male / Female, 5.0 ft	45.00	43.20	41.40	39.60	37.80
CSMUZ25MF-10	LSZH Cable, DB25 Male / Female, 10.0 ft	60.00	57.60	55.20	52.80	50.40
CSMUZ25MF-15	LSZH Cable, DB25 Male / Female, 15.0 ft	75.00	72.00	69.00	66.00	63.00
CSMUZ25MF-25	LSZH Cable, DB25 Male / Female, 25.0 ft	90.00	86.40	82.80	79.20	75.60
CSMUZ25MF-50	LSZH Cable, DB25 Male / Female, 50.0 ft	165.00	158.40	151.80	145.20	138.60
CSMUZ25MF-125	LSZH Cable, DB25 Male / Female, 125.0 ft	390.00	374.40	358.80	343.20	327.60

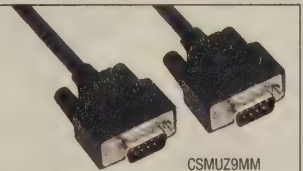
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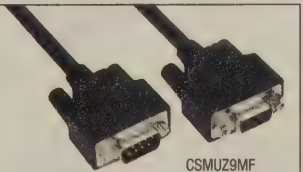
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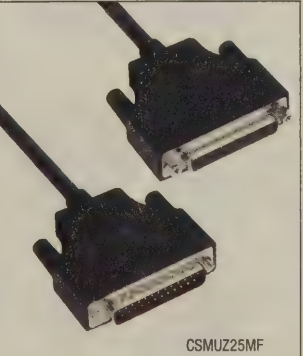
CSMNB9MF



CSMUZ9MM



CSMUZ9MF



CSMUZ25MF

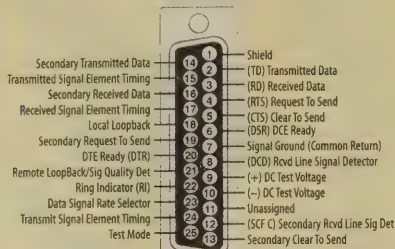


Flammability and toxicity ratings of cable jackets

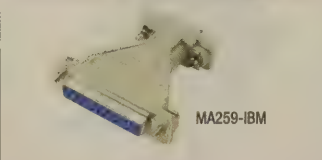
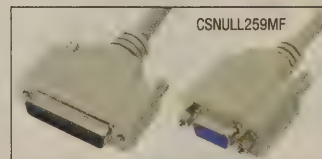
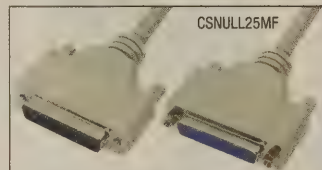
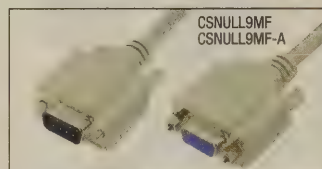
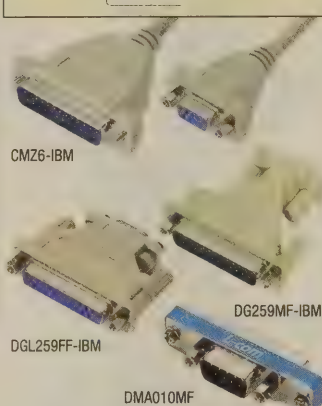
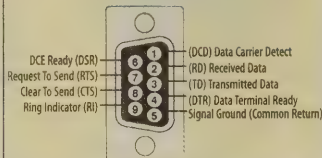
See the free video tip and more at
L-com.com/Videos/A20

Item #	Description	Code	1-9	10-24	25-99	100-249	250-499
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EIA232 Interface DB25 Male



EIA232 Interface DB9 Male



Serial Communication and the EIA232C Standard - What Does It Mean?

Serial communication is the transmission of signals over a single line or channel. It can be visualized as a line of data bits transmitted in sequence, one after another. Serial transmission is usually used to transmit data between a computer and computer peripheral. Almost all PCs today have at least one serial port to connect it to other devices such as modems, plotters, etc.

The most common serial interface standard is RS232C or EIA232C established by the Electronic Industries Association (EIA). This standard specifies transmission at signal rates of 20 Kbps or less with a 15 meter maximum distance. EIA232C ports on PCs use either DB9 or DB25 male connectors with female hardware.

The biggest shortcoming of the EIA232C standard was its limited transmission distance and speed. EIA next introduced the EIA449/422/423 standard to increase these parameters. EIA449 defines the mechanical characteristics, whereas EIA422 and 423 specify the electrical interface. EIA449 utilizes cable terminated with 37 pin D-Subminiature connectors.

RoHS DB25-DB9 Serial Port Adapters and Cables - Change From 9 to 25 and Vice Versa

Does your PC have a DB9 serial port while your modem has a DB25? These handy adapters and cables can solve your interface problem. All are 100% shielded for applications where noise is abundant. Cables and high profile adapters have removable hex nuts to mate with PC ports with reverse hardware or peripherals with standard hardware. Low profile adapter comes with permanently mounted hex standoffs on DB9 side. Color: Beige.

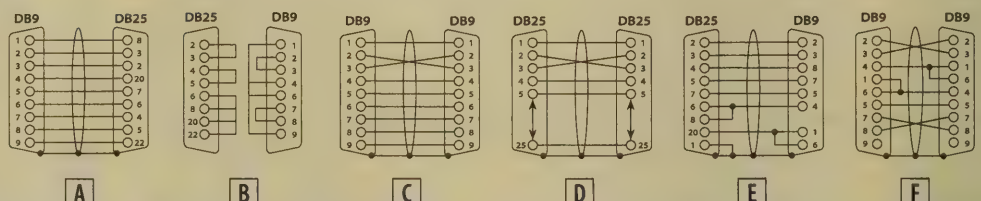
CMZ6-IBM	Molded AT Modem Cable, DB25 Male / DB9 Female, 6.0 ft	A	7.50	6.90	6.30	5.70	5.10
CMZ10-IBM	Molded AT Modem Cable, DB25 Male / DB9 Female, 10.0 ft	A	9.00	8.28	7.56	6.84	6.12
DG259FM-IBM	Molded AT Adapter, High Profile, DB25 Female / DB9 Male	A	5.95	5.36	4.76	4.17	3.57
DG259MF-IBM	Molded AT Adapter, High Profile, DB25 Male / DB9 Female	A	5.95	5.36	4.76	4.17	3.57
DGL259MF-IBM	Molded AT Adapter, Low Profile, DB25 Male / DB9 Female	A	5.95	5.36	4.76	4.17	3.57
DGL259FF-IBM	Molded AT Adapter, Low Profile, DB25 Female / DB9 Female	A	5.95	5.36	4.76	4.17	3.57
Note: DG and DGL types supplied with user removable hex nuts.							
DMA010MF	Slimline AT Adapter, DB25 Female / DB9 Male	A	5.95	5.36	4.76	4.17	3.57
DMA010FM	Slimline AT Adapter, DB25 Male / DB9 Female	A	5.95	5.36	4.76	4.17	3.57

RoHS Deluxe Null Modem Cable Assemblies with Thumbscrews, Fully Shielded

The CSNULL series of cable assemblies features the same construction as the CSNM series but is wired to the most common null modem wiring schemes. The transmit data and receive data signals are crossed to allow two DTE or DCE devices to communicate.

CSNULL9FF-5	Deluxe Null Modem Cable, DB9 Female / Female, 5.0 ft	C	10.75	9.68	8.60	7.53	6.45
CSNULL9FF-10	Deluxe Null Modem Cable, DB9 Female / Female, 10.0 ft	C	12.50	11.25	10.00	8.75	7.50
CSNULL9FF-25	Deluxe Null Modem Cable, DB9 Female / Female, 25.0 ft	C	17.75	15.98	14.20	12.43	10.65
CSNULL9MF-5	Deluxe Null Modem Cable, DB9 Male / Female, 5.0 ft	C	10.75	9.68	8.60	7.53	6.45
CSNULL9MF-10	Deluxe Null Modem Cable, DB9 Male / Female, 10.0 ft	C	12.50	11.25	10.00	8.75	7.50
CSNULL9MF-25	Deluxe Null Modem Cable, DB9 Male / Female, 25.0 ft	C	17.75	15.98	14.20	12.43	10.65
CSNULL9FF-5A	Deluxe Null Modem Cable, DB9 Female / Female, 5.0 ft	F	10.75	9.68	8.60	7.53	6.45
CSNULL9FF-10A	Deluxe Null Modem Cable, DB9 Female / Female, 10.0 ft	F	12.50	11.25	10.00	8.75	7.50
CSNULL9FF-25A	Deluxe Null Modem Cable, DB9 Female / Female, 25.0 ft	F	17.75	15.98	14.20	12.43	10.65
CSNULL9MF-5A	Deluxe Null Modem Cable, DB9 Male / Female, 5.0 ft	F	10.75	9.68	8.60	7.53	6.45
CSNULL9MF-10A	Deluxe Null Modem Cable, DB9 Male / Female, 10.0 ft	F	12.50	11.25	10.00	8.75	7.50
CSNULL9MF-25A	Deluxe Null Modem Cable, DB9 Male / Female, 25.0 ft	F	17.75	15.98	14.20	12.43	10.65
CSNULL25FF-5	Deluxe Null Modem Cable, DB25 Female / Female, 5.0 ft	D	14.00	12.60	11.20	9.80	8.40
CSNULL25FF-10	Deluxe Null Modem Cable, DB25 Female / Female, 10.0 ft	D	16.50	14.85	13.20	11.55	9.90
CSNULL25FF-25	Deluxe Null Modem Cable, DB25 Female / Female, 25.0 ft	D	24.00	21.60	19.20	16.80	14.40
CSNULL25MF-5	Deluxe Null Modem Cable, DB25 Male / Female, 5.0 ft	D	14.00	12.60	11.20	9.80	8.40
CSNULL25MF-10	Deluxe Null Modem Cable, DB25 Male / Female, 10.0 ft	D	16.50	14.85	13.20	11.55	9.90
CSNULL25MF-25	Deluxe Null Modem Cable, DB25 Male / Female, 25.0 ft	D	24.00	21.60	19.20	16.80	14.40
CSNULL259MF-5	Deluxe Null Modem Cable, DB25 Male / DB9 Female, 5.0 ft	E	11.25	10.13	9.00	7.87	6.75
CSNULL259MF-10	Deluxe Null Modem Cable, DB25 Male / DB9 Female, 10.0 ft	E	13.00	11.70	10.40	9.10	7.80
CSNULL259MF-25	Deluxe Null Modem Cable, DB25 Male / DB9 Female, 25.0 ft	E	18.25	16.43	14.60	12.77	10.95

Wiring Legend



RoHS Serial Loopback Tester - Creates Handshaking for DB25 or DB9 Serial Ports

This handy loopback tester comes complete with DB9 and DB25 female connectors to interface with any PC serial port. They are useful for diagnosing problems with serial interfaces.

MA259-IBM	Serial Loopback Tester, DB25 Female / DB9 Female	B	9.95	9.15	8.36	7.56	6.77
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Item #	Description	Code	1-9	10-24	25-99	100-249	250-499
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Parallel Transmission vs Serial Transmissions - Different Methods for Different Uses

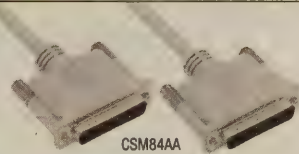
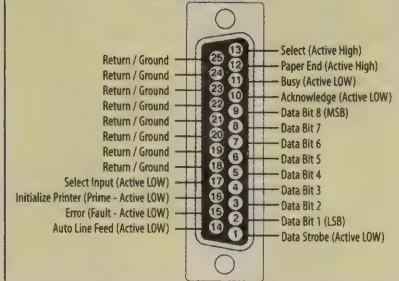
Serial transmission can be thought of as a single stream of cars (data bits), traveling down a country backroad (single transmission path), parallel transmission can be thought of as a row of cars (usually 8 data bits or a byte) traveling down a multi-lane highway. Obviously, the latter is a much quicker way of getting eight times the information from one point to another. Even though speed is increased, parallel transmission has some drawbacks because driving eight cars down the highway while maintaining a perfect row is no easy feat. Cars or bits tend to get desynchronized over distance. For this reason, most parallel connections are limited to about ten feet. L-com offers a variety of parallel cabling for this purpose. Any of the fully populated DB25-DB25 cables will work when interconnecting to peripherals with DB25 ports. For older, dot matrix style printers utilizing Centronics connectors choose the CMX Series of cables. For newer style laser printers choose our IEEE-1284 cables.

RoHS IEEE-1284 Compliant Enhanced Parallel Cables for High Speed Printing

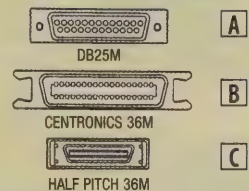
IEEE-1284 is the newest standard in high speed printing. The interface allows bi-directional communication resulting in speeds up to ten times faster than conventional equipment. L-com's IEEE-1284 cables are available in standard lengths and connector configurations but custom assemblies can be built for volume users. All cables are double shielded with 28AWG stranded twisted pair inner conductors. Cable jacket and molded shells are PVC. Color: Light Gray.

CSM84AA-1M	IEEE-1284 Molded Cable, DB25M / DB25M, 1.0m	A-A	18.00	17.28	16.56	15.84	15.12
CSM84AA-2M	IEEE-1284 Molded Cable, DB25M / DB25M, 2.0m	A-A	23.00	22.08	21.16	20.24	19.32
CSM84AA-3M	IEEE-1284 Molded Cable, DB25M / DB25M, 3.0m	A-A	28.00	26.88	25.76	24.64	23.52
CSM84AA-5M	IEEE-1284 Molded Cable, DB25M / DB25M, 5.0m	A-A	38.00	36.48	34.96	33.44	31.92
CSM84AA-10M	IEEE-1284 Molded Cable, DB25M / DB25M, 10.0m	A-A	63.00	60.48	57.96	55.44	52.92
CSM84AB-1M	IEEE-1284 Molded Cable, DB25M / CN36M, 1.0m	A-B	18.00	17.28	16.56	15.84	15.12
CSM84AB-2M	IEEE-1284 Molded Cable, DB25M / CN36M, 2.0m	A-B	23.00	22.08	21.16	20.24	19.32
CSM84AB-3M	IEEE-1284 Molded Cable, DB25M / CN36M, 3.0m	A-B	28.00	26.88	25.76	24.64	23.52
CSM84AB-5M	IEEE-1284 Molded Cable, DB25M / CN36M, 5.0m	A-B	38.00	36.48	34.96	33.44	31.92
CSM84AB-10M	IEEE-1284 Molded Cable, DB25M / CN36M, 10.0m	A-B	63.00	60.48	57.96	55.44	52.92
CSM84AC-1M	IEEE-1284 Molded Cable, DB25M / Half Pitch 36M, 1.0m	A-C	22.00	21.12	20.24	19.36	18.48
CSM84AC-2M	IEEE-1284 Molded Cable, DB25M / Half Pitch 36M, 2.0m	A-C	27.00	25.92	24.84	23.76	22.68
CSM84AC-3M	IEEE-1284 Molded Cable, DB25M / Half Pitch 36M, 3.0m	A-C	32.00	30.72	29.44	28.16	26.88
CSM84AC-5M	IEEE-1284 Molded Cable, DB25M / Half Pitch 36M, 5.0m	A-C	42.00	40.32	38.64	36.96	35.28
CSM84AC-10M	IEEE-1284 Molded Cable, DB25M / Half Pitch 36M, 10.0m	A-C	67.00	64.32	61.64	58.96	56.28
CSM84BC-1M	IEEE-1284 Molded Cable, CN36M / Half Pitch 36M, 1.0m	B-C	25.00	24.00	23.00	22.00	21.00
CSM84BC-2M	IEEE-1284 Molded Cable, CN36M / Half Pitch 36M, 2.0m	B-C	30.00	28.80	27.60	26.40	25.20
CSM84BC-3M	IEEE-1284 Molded Cable, CN36M / Half Pitch 36M, 3.0m	B-C	35.00	33.60	32.20	30.80	29.40
CSM84BC-5M	IEEE-1284 Molded Cable, CN36M / Half Pitch 36M, 5.0m	B-C	45.00	43.20	41.40	39.60	37.80
CSM84BC-10M	IEEE-1284 Molded Cable, CN36M / Half Pitch 36M, 10.0m	B-C	70.00	67.20	64.40	61.60	58.80
CSM84CC-1M	IEEE-1284 Molded Cable, Half Pitch 36M / Half Pitch 36M, 1.0m	C-C	30.00	28.80	27.60	26.40	25.20
CSM84CC-2M	IEEE-1284 Molded Cable, Half Pitch 36M / Half Pitch 36M, 2.0m	C-C	35.00	33.60	32.20	30.80	29.40
CSM84CC-3M	IEEE-1284 Molded Cable, Half Pitch 36M / Half Pitch 36M, 3.0m	C-C	40.00	38.40	36.80	35.20	33.60
CSM84CC-5M	IEEE-1284 Molded Cable, Half Pitch 36M / Half Pitch 36M, 5.0m	C-C	50.00	48.00	46.00	44.00	42.00
CSM84CC-10M	IEEE-1284 Molded Cable, Half Pitch 36M / Half Pitch 36M, 10.0m	C-C	75.00	72.00	69.00	66.00	63.00

Parallel Interface DB25 Female



Connector Code

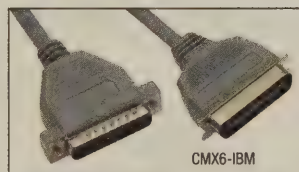


Tip For all cable measurements in meters, 1m = 3.28 ft

RoHS Molded Printer Cables - Popular Printer Cables for use with PC Compatibles

These cables have molded construction and are fully shielded. They are offered in two popular lengths. The 25 pin male D-Sub connects to the computer's parallel port and the 36 pin male Centronics connector mates with the printer's parallel input.

CMX6-IBM	Molded Printer Cable, DB25 Male / CN36 Male, 6.0 ft	12.50	12.00	11.50	11.00	10.50
CMX10-IBM	Molded Printer Cable, DB25 Male / CN36 Male, 10.0 ft	15.50	14.88	14.26	13.64	13.02



RoHS Slimline Centronic 36 Gender Changers

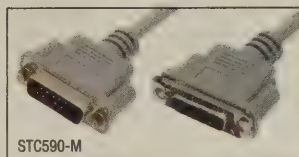
DGC36F	Slimline Centronic Gender Changer, CN36 Female / Female	9.65	8.69	7.72	6.76	5.79
DGC36M	Slimline Centronic Gender Changer, CN36 Male / Male	9.65	8.69	7.72	6.76	5.79



RoHS Ethernet Transceiver Drop Cables - DB15M to DB15F for Connection with AUI Ports

IEEE 802.3 drop cables have 15 pin D-Subs with the male end having locking posts and the female end having a slide bar. STC590 series utilizes molded hoods and 28AWG conductors for added flexibility. These cables are fully shielded and feature twisted pair 28 AWG cable, molded backshells and PVC insulation.

STC590-1M	Transceiver Cable, Molded Ends, Male / Female, 1.0m	18.20	17.84	17.11	16.02	13.65
STC590-2M	Transceiver Cable, Molded Ends, Male / Female, 2.0m	20.45	20.04	19.22	18.00	15.34
STC590-3M	Transceiver Cable, Molded Ends, Male / Female, 3.0m	22.70	22.25	21.34	19.98	17.02
STC590-5M	Transceiver Cable, Molded Ends, Male / Female, 5.0m	27.20	26.66	25.57	23.94	20.40

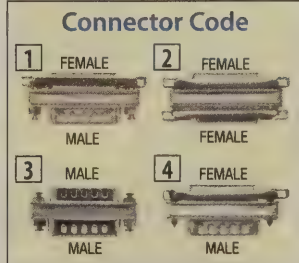


RoHS Do You Have Compatibility Problems with AUI Connectors? We Have a Number of Solutions

Do you have transceiver AUI drop cables that do not correctly interface with your Ethernet card or cable? Or maybe you want to protect the AUI port of your expensive network interface cards with an AUI socket saver. Whatever the problem is, L-com has the solution to all of your interconnection needs, offering gender changers, extenders and socket savers. All female ended adapters have a slide latch, male ends have locking posts or 4-40 screws. Refer to the outline drawings shown here and select the adapter type you need.

DGEL15MF	AUI Socket Saver and Extender, Male / Female	1	7.95	7.16	6.36	5.57	4.77
DGCL15F	AUI Gender Changer, Female / Female	2	6.95	6.26	5.56	4.87	4.17
DGCL15M	AUI Gender Changer, Male / Male	3	6.95	6.26	5.56	4.87	4.17
DGBL15MF	AUI to DB15 Adapter, Male / Female	4*	7.95	7.16	6.36	5.57	4.77

*Great for adapting NICs with 4-40 hardware!



For more useful information go to....
www.L-com.com/Resources

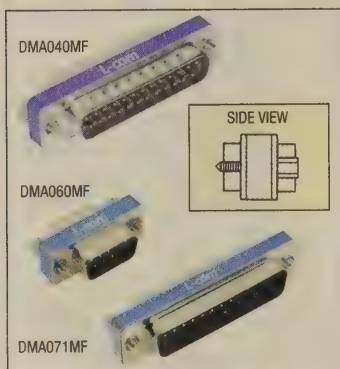
L-com Global Connectivity

Assorted D-Sub Adapter Selection Matrix

Use this handy chart to locate the desired D-Sub adapter. Simply locate the connector sizes and genders along the top and intersect with the row showing the desired adapter style. If a specific adapter is not listed, please visit our website at www.L-com.com for the latest information and select the Product

Finder on the left side of the screen or call our Technical Support Group at 800-343-1455 for assistance. Wiring schemes are listed near each adapter in the catalog or on the engineering drawing available on L-com's website.

ASSORTED D-SUB ADAPTER SELECTOR GUIDE							
INTERFACE	DB9 MALE- DB25 FEMALE	DB9 FEMALE- DB25 MALE	DB9 FEMALE- DB25 FEMALE	DB9 MALE- DB9 FEMALE	DB25 MALE- DB25 FEMALE	DB9 FEMALE- HD15 MALE	DB9 MALE- HD15 MALE
ADAPTER TYPE							
AT MODEM	DG259FM-IBM DMA010MF	DG259MF-IBM DGL259MF-IBM DMA010FM	DGL259FF-IBM				
NULL MODEM				DMA060MF DMA030MF	DMA070MF DMA071MF DMA072MF DMA074MF		
REVERSER (Position 2 & 3)					DMA040MF		
RGB MONITOR						DMB510MF DMB512MF	DMB510MM DMA100MM

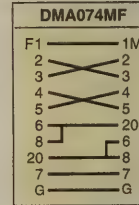
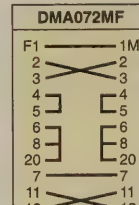
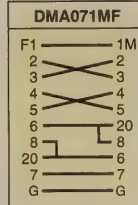
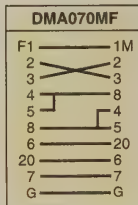
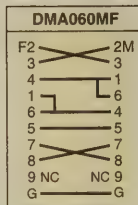
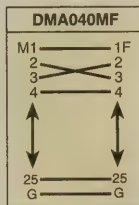
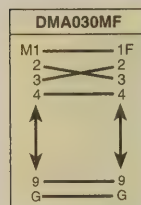


Item # Description 1-9 10-24 25-99 100-249 250-499

RoHS Slim-Line DB9 or DB25 Null Modems, Adapters and Reversers - Communicate Without Modems

L-com's series of Null Modems and Reversers are completely shielded. More important, their extremely low profile reduces leverage strain and breakage on overstressed computer ports. The Null Modems shown are typical of our Slim-Line manufacturing technique. They are also available in virtually any wiring configuration. OEM users are requested to send wiring data for our consideration.

DMA030MF	Slim-Line Reversing Adapter, Pins 2 and 3, DB9 Male / Female	5.95	5.36	4.76	4.17	3.57
DMA040MF	Slim-Line Reversing Adapter, Pins 2 and 3, DB25 Male / Female	6.95	6.26	5.56	4.87	4.17
DMA060MF	Slim-Line Null Modem Adapter, DB9 Male / Female	5.95	5.36	4.76	4.17	3.57
DMA070MF	Slim-Line Null Modem Adapter, DB25 Std. Handshake, Male / Female	6.95	6.26	5.56	4.87	4.17
DMA071MF	Slim-Line Null Modem Adapter, DB25 Full Handshake, Male / Female	6.95	6.26	5.56	4.87	4.17
DMA072MF	Slim-Line Null Modem Adapter, DB25 Auto Handshake, Male / Female	6.95	6.26	5.56	4.87	4.17
DMA074MF	Slim-Line Null Modem Adapter, DB25 Specialty, Male / Female	6.95	6.26	5.56	4.87	4.17



Gender Changer and Socket Saver Selection Matrix

Use this handy chart to locate the desired gender changer or socket saver. Simply locate the connector size along the top (standard or filtered) and intersect with the row showing the desired connector genders. If a specific

adapter is not listed, please visit our website at www.L-com.com for the latest information and select the Product Finder on the left side of the screen or call our Technical Support Group at 800-343-1455 for assistance.

GENDER CHANGER & SOCKET SAVER D-SUB ADAPTER SELECTOR GUIDE (ALL WIRING STRAIGHT THROUGH)															
INTERFACE		STANDARD D-SUB								HIGH DENSITY D-SUB					
		9 PIN D-SUB	9 PIN D-SUB FILTERED	15 PIN D-SUB	15 PIN D-SUB FILTERED	25 PIN D-SUB	25 PIN D-SUB FILTERED	37 PIN D-SUB	37 PIN D-SUB FILTERED	50 PIN D-SUB	15 PIN HIGH DENSITY	26 PIN HIGH DENSITY	44 PIN HIGH DENSITY	62 PIN HIGH DENSITY	78 PIN HIGH DENSITY
GENDER	FALE-FEMALE	DGB9F		DGB15F		DGB25F		DGB37F		DGB50F	DGBH15F DGBV15F* DMB521F	DGBH26F	DGBH44F	DGBH62F	DGBH78F
	MALE-MALE	DGB9M		DGB15M		DGB25M		DGB37M		DGB50M	DGBH15M DGBV15M* DMB520M	DGBH26M	DGBH44M	DGBH62M	DGBH78M
	MALE-FEMALE	DGB9MF DG909MF1 DG909MF2	DGF9MF DGF9MF DGF9MF	DGB15MF	DGF15MF DGF15MF DGF15MF	DG9025MF1 DG9025MF2 DGB25MF	DGF25MF DGF25MF DGF25MF	DGB37MF	DGF37MF DGF37MF DGF37MF	DGB50MF	DGBH15MF DG90H15MF1 DG90H15MF2 DGBV15MF*	DGBH26MF	DGBH44MF	DGBH62MF	DGBH78MF

*Pin 9 missing for older, legacy VGA applications.



Item #	Description	1-9	10-24	25-99	100-249	250-499
RoHS Slim-Line Gender Changer/Adapters - Reduce Port Receptacle Strain Up To 90%						
DGB9F	Slim-Line Gender Changer, DB9 Female / Female	4.95	4.46	3.96	3.47	2.97
DGB9M	Slim-Line Gender Changer, DB9 Male / Male	4.95	4.46	3.96	3.47	2.97
DGB15F	Slim-Line Gender Changer, DB15 Female / Female	5.95	5.36	4.76	4.17	3.57
DGB15M	Slim-Line Gender Changer, DB15 Male / Male	5.95	5.36	4.76	4.17	3.57
DGB25F	Slim-Line Gender Changer, DB25 Female / Female	6.95	6.26	5.56	4.87	4.17
DGB25M	Slim-Line Gender Changer, DB25 Male / Male	6.95	6.26	5.56	4.87	4.17
DGB37F	Slim-Line Gender Changer, DB37 Female / Female	8.95	8.06	7.16	6.26	5.37
DGB37M	Slim-Line Gender Changer, DB37 Male / Male	8.95	8.06	7.16	6.26	5.37
DGB50F	Slim-Line Gender Changer, DB50 Female / Female	10.95	9.86	8.76	7.66	6.57
DGB50M	Slim-Line Gender Changer, DB50 Male / Male	10.95	9.86	8.76	7.66	6.57

RoHS Socket Saver Adapters - Extend D-Sub Connector Usage and Avoid Major Repairs

DGB9MF	Slim-Line Socket Saver, DB9 Male / Female	4.95	4.46	3.96	3.47	2.97
DGB15MF	Slim-Line Socket Saver, DB15 Male / Female	5.95	5.36	4.76	4.17	3.57
DGB25MF	Slim-Line Socket Saver, DB25 Male / Female	6.95	6.26	5.56	4.87	4.17
DGB37MF	Slim-Line Socket Saver, DB37 Male / Female	8.95	8.06	7.16	6.26	5.37
DGB50MF	Slim-Line Socket Saver, DB50 Male / Female	10.95	9.86	8.76	7.66	6.57

RoHS High-Density Slim-Line Gender Changers - Same Small Size for High-Density D-Subs

DGBH15F	Slim-Line Gender Changer, HD15 Female / Female	7.95	7.16	6.36	5.57	4.77
DGBH15M	Slim-Line Gender Changer, HD15 Male / Male	7.95	7.16	6.36	5.57	4.77
DGBH26F	Slim-Line Gender Changer, HD26 Female / Female	8.95	8.06	7.16	6.26	5.37
DGBH26M	Slim-Line Gender Changer, HD26 Male / Male	8.95	8.06	7.16	6.26	5.37
DGBH44F	Slim-Line Gender Changer, HD44 Female / Female	9.95	8.96	7.96	6.96	5.97
DGBH44M	Slim-Line Gender Changer, HD44 Male / Male	9.95	8.96	7.96	6.96	5.97
DGBH62F	Slim-Line Gender Changer, HD62 Female / Female	12.95	11.66	10.36	9.07	7.77
DGBH62M	Slim-Line Gender Changer, HD62 Male / Male	12.95	11.66	10.36	9.07	7.77
DGBH78F	Slim-Line Gender Changer, HD78 Female / Female	13.95	12.56	11.16	9.76	8.37
DGBH78M	Slim-Line Gender Changer, HD78 Male / Male	13.95	12.56	11.16	9.76	8.37

RoHS High-Density Socket Saver Adapters - Great for Preventing Wear on High-Density Connectors

DGBH15MF	Slim-Line Socket Saver, HD15 Male / Female	7.95	7.16	6.36	5.57	4.77
DGBH26MF	Slim-Line Socket Saver, HD26 Male / Female	8.95	8.06	7.16	6.26	5.37
DGBH44MF	Slim-Line Socket Saver, HD44 Male / Female	9.95	8.96	7.96	6.96	5.97
DGBH62MF	Slim-Line Socket Saver, HD62 Male / Female	12.95	11.66	10.36	9.07	7.77
DGBH78MF	Slim-Line Socket Saver, HD78 Male / Female	13.95	12.56	11.16	9.76	8.37

RoHS Slim-Line Gender Changer/Adapters - with Pin 9 Missing for Legacy VGA Cable Applications

DGBV15F	Slim-Line Gender Changer, HD15 Female / Female	7.95	7.16	6.36	5.57	4.77
DGBV15M	Slim-Line Gender Changer, HD15 Male / Male	7.95	7.16	6.36	5.57	4.77
DGBV15MF	Slim-Line Socket Saver, HD15 Male / Female	7.95	7.16	6.36	5.57	4.77
DMA100MM	PS-2 Monitor Adapter, DB9 Male / HD15 Male	7.55	6.80	6.04	5.28	4.53

RoHS Slim-Line Gender Changers and Socket Saver - Typical Centronic 36 and SCSI/Telco 50

DGC36F	Slim-Line Centronic Gender Changer, 36 Pin Female / Female	9.65	8.69	7.72	6.76	5.79
DGC36M	Slim-Line Centronic Gender Changer, 36 Pin Male / Male	9.65	8.69	7.72	6.76	5.79
DGC50F	Slim-Line SCSI Gender Changer, 50 Pin Female / Female	10.95	9.86	8.76	7.66	6.57
DGC50M	Slim-Line SCSI Gender Changer, 50 Pin Male / Male	10.95	9.86	8.76	7.66	6.57
DGC50MF	Slim-Line SCSI Socket Saver, 50 Pin Male / Female	10.95	9.86	8.76	7.66	6.57

RoHS DB9, HD15, DB15 and DB25 Low Profile Right Angle Adapters - Molded and Fully Shielded

Connecting cables in tight spaces can be a problem in many applications. These low profile adapters solve this problem by allowing cables to be connected at a 90 degree angle. Two versions are available for each connector size allowing for cables to exit in opposite directions. Adapters are male to female, fully shielded and are overmolded with Gray PVC. Mating hardware is reversible allowing for use in virtually any application. See page 70 for cable exit detail.

DG909MF1	Low Profile Right Angle Adapter, DB9 Male / Female, Cable Exit 1	7.00	6.58	6.16	5.74	5.32
DG909MF2	Low Profile Right Angle Adapter, DB9 Male / Female, Cable Exit 2	7.00	6.58	6.16	5.74	5.32
DG9015MF1	Low Profile Right Angle Adapter, DB15 Male / Female, Cable Exit 1	8.00	7.52	7.04	6.56	6.08
DG9015MF2	Low Profile Right Angle Adapter, DB15 Male / Female, Cable Exit 2	8.00	7.52	7.04	6.56	6.08
DG90H15MF1	Low Profile Right Angle Adapter, HD15 Male / Female, Cable Exit 1	8.00	7.52	7.04	6.56	6.08
DG90H15MF2	Low Profile Right Angle Adapter, HD15 Male / Female, Cable Exit 2	8.00	7.52	7.04	6.56	6.08
DG9025MF1	Low Profile Right Angle Adapter, DB25 Male / Female, Cable Exit 1	10.00	9.40	8.80	8.20	7.60
DG9025MF2	Low Profile Right Angle Adapter, DB25 Male / Female, Cable Exit 2	10.00	9.40	8.80	8.20	7.60

Easily panel mount adapters

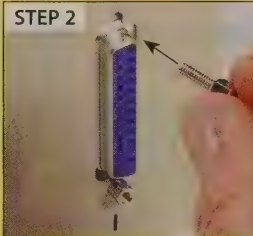


See The Video

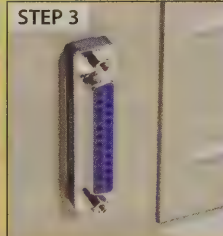
www.L-com.com/Videos/A03



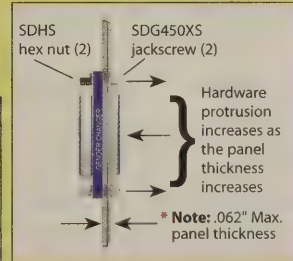
1. Remove standard hardware provided with adapter. Mount adapter from rear of panel.



2. Secure with jack screw SDG450XS (purchased separately) from front of panel.

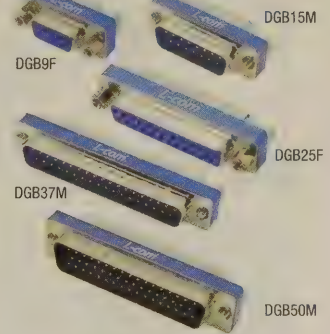


3. Thread hex nut SDHS (purchased separately) onto exposed threads of SDG450XS.

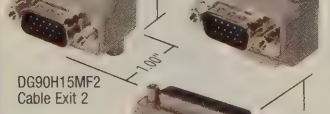
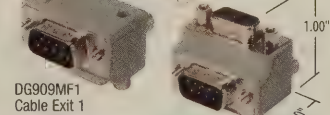
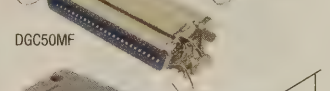
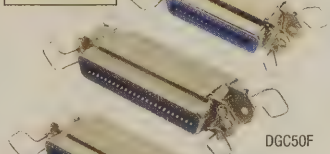
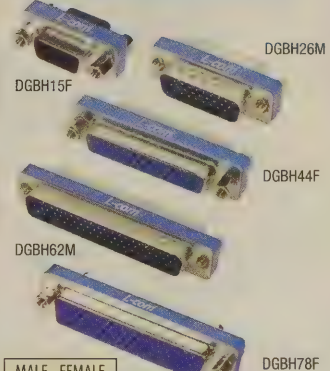


*Note: Maximum recommended panel thickness is 0.062". Dimensions in excess of 0.062" can limit proper cable mating due to hex nut protrusion. Panels that exceed 0.062" can be milled down to the recommended thickness in the area around the adapter.

Standard D-Sub

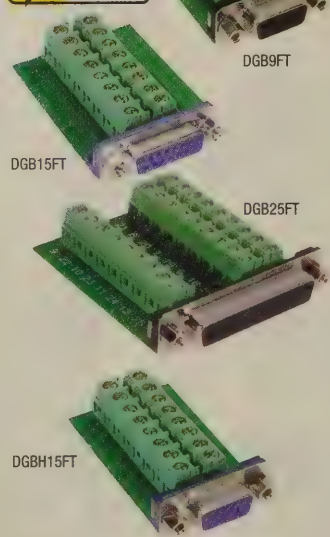
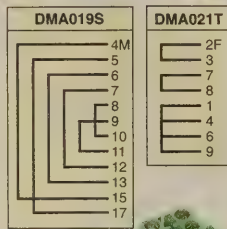
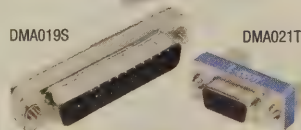


High-Density D-Sub



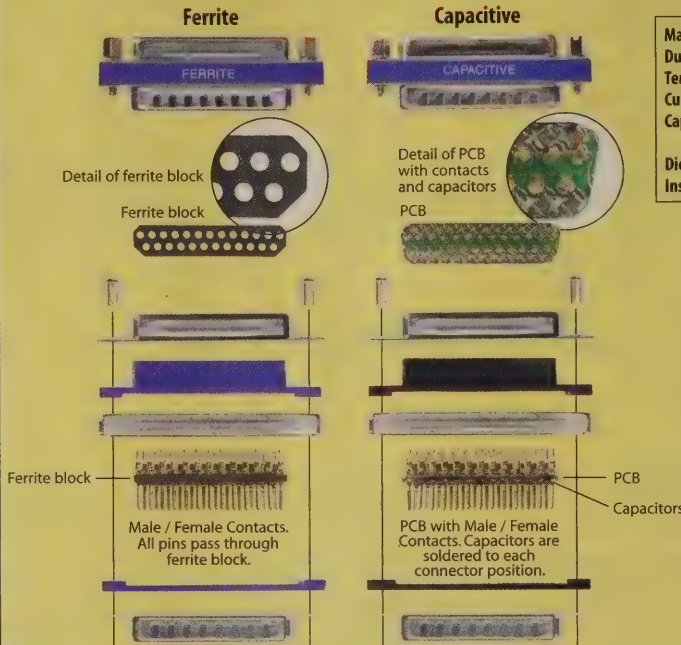
How to panel mount adapters

See the free video tip and more at L-com.com/Videos/A03



How filter adapters are constructed

Filtered adapters provide a cost effective method for reducing electromagnetic interference (EMI) and can help to avoid costly product redesigns. L-com offers two styles of filtered adapters, **Ferrite** and **Capacitive**.



Mating Hardware	Brass, Nickel Plated
Durability Mating / Unmating	Approx. 100 cycles
Temperature Rating	-55°C to 105°C
Current Rating	5 amps max.
Capacitors (Ceramic)	820 pF ± 10%
	Voltage 100 VDC
Dielectric Withstanding Voltage	500 VDC, 1 minute
Insulation Resistance	500m Ohms @ 100 VDC

Components	Materials
Hollow Rivet	Steel / Tin Plated
Female Connector Shell	Steel / Tin Plated
Female Connector Housing	Glass filled PBT, UL94 V-0 rated
Metal Shield	Steel / Tin Plated
Contacts	Brass / gold flash plated
Male Connector Housing	Glass filled PBT, UL94 V-0 rated
Male Connector Shell	Steel / Tin Plated

Item #	Description	1-9	10-24	25-99	100-249	250-499
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RoHS Slim-Line Block Ferrite Filter Adapters - Eliminate Problem EMI in Computing Devices

L-com's plug-receptacle feed-thru adapter is a viable alternative solution for companies that need to rework (retrofit) existing designs in their effort to meet FCC regulations. Use these filtered D-Sub adapters where it's necessary to limit electromagnetic interference (EMI). Easy installation, economical cost, low profile and fully shielded. Four D-Sub sizes available, supplied with male/female hardware. Engineer's kit is also available and contains one of each adapter in a plastic carrying case.

DGF9MF	Ferrite Filter (EMI) Adapter, DB9 Male / Female	7.95	7.31	6.68	6.04	5.41
DGF15MF	Ferrite Filter (EMI) Adapter, DB15 Male / Female	8.95	8.23	7.52	6.80	6.09
DGF25MF	Ferrite Filter (EMI) Adapter, DB25 Male / Female	9.95	9.15	8.36	7.56	6.77
DGF37MF	Ferrite Filter (EMI) Adapter, DB37 Male / Female	11.95	10.99	10.04	9.08	8.13
DGF100K	Engineer's Kit with 4 EMI Adapters	38.95	35.83	32.72	29.60	26.49

RoHS Slim-Line Ceramic Capacitive Filter Adapters - For Excellent, Economical Noise Removal

Filtering is the simplest method of removing unwanted interference from within a circuit. A capacitive filter is built into a male/female D-Sub adapter that provides an easy-to-use retrofit adapter. Although reasonably priced, there is a cost associated with capacitors and that is signal degradation, particularly in CMOS circuits with extremely low signal levels. Systems that transmit strong signals and can tolerate moderate loss are well suited for capacitive filtering. Our compact design allows an extremely low profile of only 0.2". Individual capacitance on each pin is 820pF. Also available in an engineer's kit of 4 adapters.

DGFC9MF	Capacitive Filter (EMC) Adapter, DB9 Male / Female	8.95	8.23	7.52	6.80	6.09
DGFC15MF	Capacitive Filter (EMC) Adapter, DB15 Male / Female	10.95	10.07	9.20	8.32	7.45
DGFC25MF	Capacitive Filter (EMC) Adapter, DB25 Male / Female	13.95	12.83	11.72	10.60	9.49
DGFC37MF	Capacitive Filter (EMC) Adapter, DB37 Male / Female	20.95	19.27	17.60	15.92	14.25
DGFC100K	Engineer's Kit with 4 EMC Adapters	53.95	49.63	45.32	41.00	36.69

RoHS D-Sub Gender Changer Assortment Kit - Never Have a Mismatched Data Cable Again

Always have the right gendered cable when making equipment changes out in the field. Each of these assortment kits have a total of 8 adapters for just about every D-Sub cable correction. DGB1010K includes: DB9, DB15, DB25 and DB37; the DGBH1010K high-density kit includes DGBH15, DGBH26, DGBH44 and DGBH62, each in male/male and female/female versions. The total price of these kits is less than the total cost of individual gender changers. These slimline gender changers are all shielded construction and are extremely compact. These kits are a must for every technician. Packaged in a high impact seven compartment carry box.

DGB1010K	Slim-Line Gender Changer Kit, 8 Pieces	49.95	44.96	39.96	34.96	29.97
DGBH1010K	Hi-Density Gender Changer Kit, 8 Pieces	69.95	62.96	55.96	48.97	41.97

RoHS Slim-Line Loopback Test Plugs - Emulate Working Conditions for Your Testing Needs

DMA019S	Slim-Line Parallel Loopback Plug, DB25 Male	6.95	6.26	5.56	4.87	4.17
DMA021T	Slim-Line Loopback Plug, DB9 Female	6.95	6.26	5.56	4.87	4.17

RoHS DB9, DB15, DB25 or HD15 Female Connector for Field Termination - Panel Mountable

These field termination female connectors provide an easy and convenient way to perform field termination of any DB9, DB15, DB25 or HD15 cable. Separate connection points are provided for all positions of the connector plus the ground. Terminal block design with set screws provides reliable electrical connections without special tools. The terminal block area is clearly marked making proper termination virtually foolproof. Panel mountable for thickness up to 0.062".

DGB9FT	DB9 Female Connector for Field Termination	8.25	7.76	7.26	6.77	6.27
DGB15FT	DB15 Female Connector for Field Termination	9.75	9.16	8.58	7.99	7.41
DGB25FT	DB25 Female Connector for Field Termination	12.00	11.28	10.56	9.84	9.12
DGBH15FT	SVGA HD15 Female Connector for Field Termination	10.00	9.40	8.80	8.20	7.60

How are slimline adapters used?



See The Video

www.L-com.com/Videos/A24

Gender Changers:

Allow two same gender connectors to mate. Very handy to have on hand to solve problems in the field or lab. **See detail 1.**

Can also be used as pass through connectors for panel mounting.

Note: See the tip on [page 67](#) for panel mounting hardware required.

See detail 3.

Socket Savers:

Extend the life of more expensive D-Sub connectors on PCBs and cable assemblies that are subject to frequent mating and unmating. **See detail 2.**

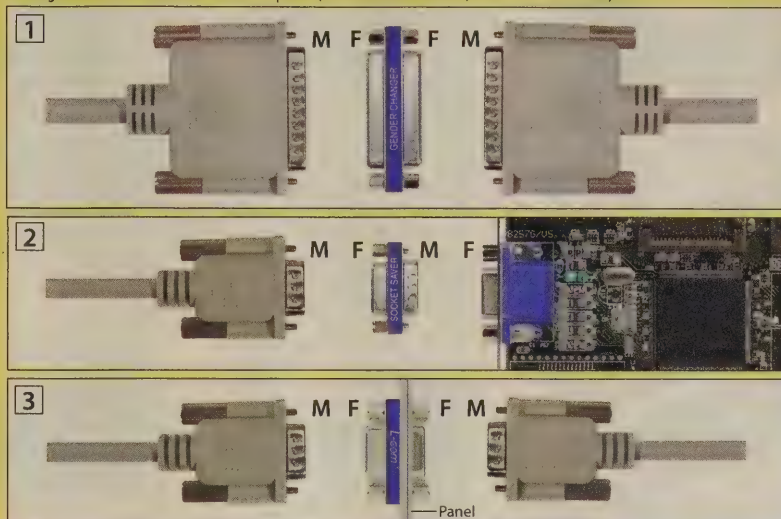
Can also be used as pass through connectors for panel mounting.

Null Modem, Reverser and Custom Wired Adapters:

Convert existing straight wired cables to the desired wiring scheme.

Can also be used for panel mounting.

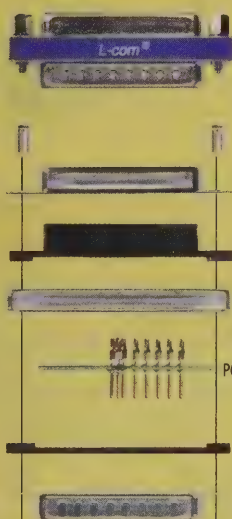
Slim-Line adapters are used in a variety of applications, as illustrated here. Due to their low profile, they help reduce leverage strain on overstressed interface ports. (F = Female Connector, M = Male Connector)



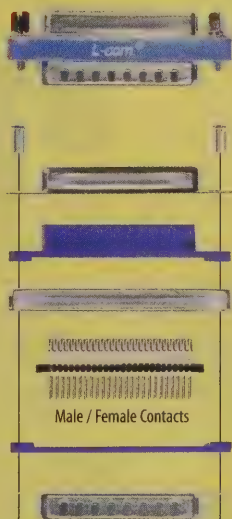
Tip

How slimline adapters are constructed

Adapters and Reversers



Gender Changer / Socket Saver



All slimline adapters are fully shielded providing EMI protection in electrically noisy environments. Gender Changers and Socket Savers use a one piece contact design ensuring reliability in

applications requiring frequent connector mating/unmating. Standard mating hardware is easily removed and replaced for situations such as mismatched hardware, panel mounting, etc.

Mating Hardware	Brass, Nickel Plated
Durability Mating / Unmating	Approx. 100 cycles
Temperature Rating	-55°C to 105°C
Current Rating	5 amps max.
Voltage Rating	50 volts max.

Components	Materials
Hollow Rivet	Steel / Tin Plated
Female Connector Shell	Steel / Tin Plated
Female Connector Housing	Glass filled PBT, UL94 V-0 rated
Metal Shield	Steel / Tin Plated
Contacts	Brass / Gold Flash Plated
Male Connector Housing	Glass filled PBT, UL94 V-0 rated
Male Connector Shell	Steel / Tin Plated

Item #	Description	1-9	10-24	25-99	100-249	250-499
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RoHS DB9 and DB25 Shielded Covers - Protect Ports from Contamination and EMI

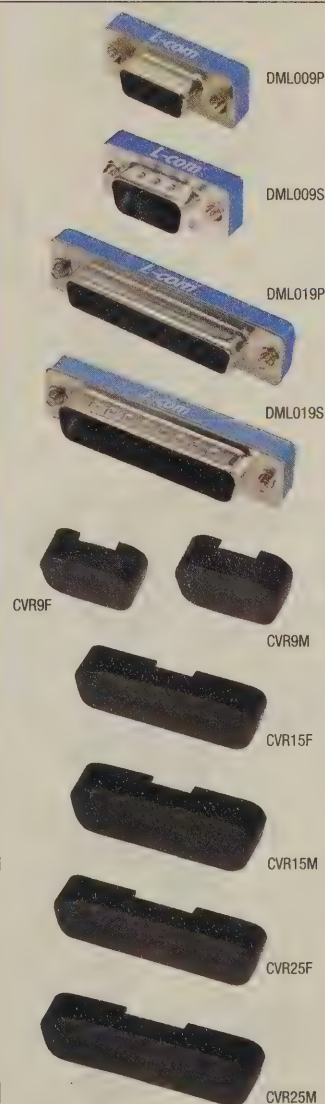
These unique all metal covers provide port protection and shielding from EMI/RFI interference. Unlike other covers, the DML series is equipped with 4-40 screws for positive attachment and proper grounding.

DML009P	Shielded Cover for DB9M	1.59	1.46	1.34	1.21	1.08
DML009S	Shielded Cover for DB9F	1.59	1.46	1.34	1.21	1.08
DML019P	Shielded Cover for DB25M	1.59	1.46	1.34	1.21	1.08
DML019S	Shielded Cover for DB25F	1.59	1.46	1.34	1.21	1.08

RoHS D-Sub Connector Covers - Protect Unused Ports, Pkg/10

These covers are perfect for protecting unused ports, cables or any expensive equipment from physical damage, dirt, and dust. Made from RoHS compliant PVC, these covers attach easily and stay in place with a snug friction fit. Color is Black.

CVR9F	DB9/HD15 Protective Cover for Female Connectors, Pkg/10	6.75	6.21	5.67	5.13	4.59
CVR9M	DB9/HD15 Protective Cover for Male Connectors, Pkg/10	6.75	6.21	5.67	5.13	4.59
CVR15F	DB15/HD26 Protective Cover for Female Connectors, Pkg/10	6.75	6.21	5.67	5.13	4.59
CVR15M	DB15/HD26 Protective Cover for Male Connectors, Pkg/10	6.75	6.21	5.67	5.13	4.59
CVR25F	DB25/HD44 Protective Cover for Female Connectors, Pkg/10	6.75	6.21	5.67	5.13	4.59
CVR25M	DB25/HD44 Protective Cover for Male Connectors, Pkg/10	6.75	6.21	5.67	5.13	4.59

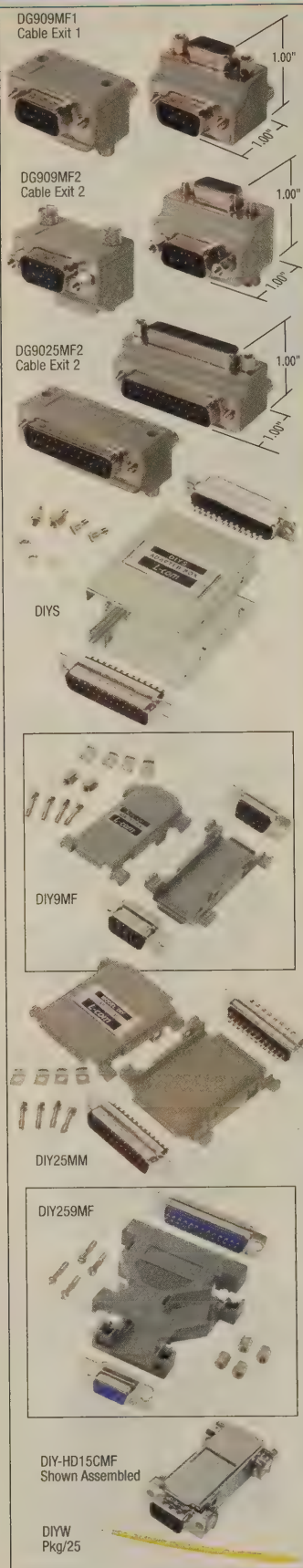


How slim-line adapters are constructed

See the tip and more at

L-com.com/SlimlineConstruction

L-com Global Connectivity



Item # Description

1-9 10-24 25-99 100-249 250-499

RoHS DB9, HD15, DB15 and DB25 Low Profile Right Angle Adapters - Molded and Fully Shielded

Connecting cables in tight spaces can be a problem in many applications. These low profile adapters solve this problem by allowing cables to be connected at a 90 degree angle. Two versions are available for each connector size allowing for cables to exit in opposite directions. Adapters are male to female, fully shielded and are overmolded with gray PVC. Mating hardware is reversible allowing for use in virtually any application.

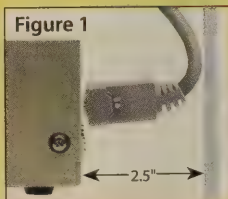
Item #	Description	1-9	10-24	25-99	100-249	250-499
DG909MF1	Low Profile Right Angle Adapter, DB9 Male / Female, Cable Exit 1	7.00	6.58	6.16	5.74	5.32
DG909MF2	Low Profile Right Angle Adapter, DB9 Male / Female, Cable Exit 2	7.00	6.58	6.16	5.74	5.32
DG9015MF1	Low Profile Right Angle Adapter, HD15 Male / Female, Cable Exit 1	8.00	7.52	7.04	6.56	6.08
DG9015MF2	Low Profile Right Angle Adapter, HD15 Male / Female, Cable Exit 2	8.00	7.52	7.04	6.56	6.08
DG9015MF1	Low Profile Right Angle Adapter, DB15 Male / Female, Cable Exit 1	8.00	7.52	7.04	6.56	6.08
DG9015MF2	Low Profile Right Angle Adapter, DB15 Male / Female, Cable Exit 2	8.00	7.52	7.04	6.56	6.08
DG9025MF1	Low Profile Right Angle Adapter, DB25 Male / Female, Cable Exit 1	10.00	9.40	8.80	8.20	7.60
DG9025MF2	Low Profile Right Angle Adapter, DB25 Male / Female, Cable Exit 2	10.00	9.40	8.80	8.20	7.60



How are right angle adapters used?

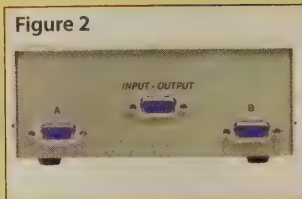
Right angle adapters assist in connecting cables in tight spaces by allowing the cable to mate at a 90 degree angle. This reduces the backshell and cable bend distance required when mating cables. L-com offers right angle adapters in DB9 and HD15 male to female configurations with two cable exit directions each.

Figure 1



Cables require approximately 2.5" to exit a mating connector depending on backshell length and cable diameter/flexibility.

Figure 2



Choose the proper adapter for desired cable exit direction and simply plug the cable into the adapter.

Figure 3

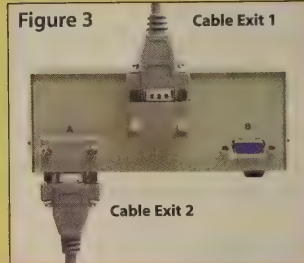
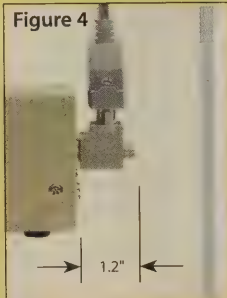


Figure 4



Cable Exit 1

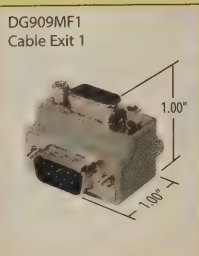
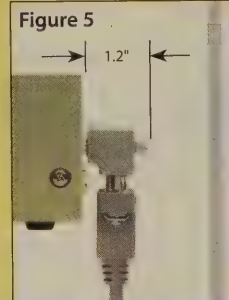
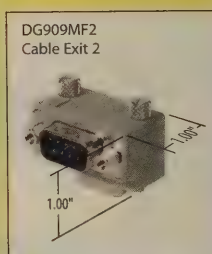


Figure 5



Cable Exit 2



RoHS Deluxe Do-it-Yourself Kits - With Metal Case for Optimum Strength and Shielding

This series makes use of a proprietary sturdy steel case with heavy nickel plate. This design not only makes it more compact but also makes the unit almost indestructible and provides full shielding. The DIYS Series allows the creation of practically any type of EIA232 adapter. Choice of three kit models, depending on gender and whether your needs require shielding. The DB25 connectors have solder cup terminations to accept soldered wire leads. Each kit comes with the following basics: Two DB25 connectors, two snap-on half covers (chrome plated metal) and two sets of hardware for the connector ends. No jumper wires are supplied, may be ordered separately.

DIYS	Metal DIY Kit, DB25 Male / Female	9.65	8.88	8.11	7.33	6.56
DIYS-F	Metal DIY Kit, DB25 Female / Female	9.95	9.15	8.36	7.56	6.77
DIYS-M	Metal DIY Kit, DB25 Male / Male	9.25	8.51	7.77	7.03	6.29
DIYW	Pre-tinned Jumpers, Pkg/25	2.00	1.84	1.68	1.52	1.36

Do-It-Yourself Kits - Everything You Need to Build Your Own Data Line Adapters

Allows the creation of many types of data line adapters. Utilizes the most popular D-Subminiature connectors with solder cup terminations. Simply solder short wire jumpers to pins of your choice. The following components are included in each kit: two D-Sub Connectors of appropriate size and gender, two snap-on half covers and a complete set of hardware for the connectors. No jumper wires are supplied.

DIY9MF	Do-It-Yourself Kit, DB9 Male / Female	6.60	6.07	5.54	5.02	4.49
DIY9MM	Do-It-Yourself Kit, DB9 Male / Male	6.45	5.93	5.42	4.90	4.39
DIY9FF	Do-It-Yourself Kit, DB9 Female / Female	6.75	6.21	5.67	5.13	4.59
DIY15MF	Do-It-Yourself Kit, DB15 Male / Female	7.25	6.67	6.09	5.51	4.93
DIY15MM	Do-It-Yourself Kit, DB15 Male / Male	7.10	6.53	5.96	5.40	4.83
DIY15FF	Do-It-Yourself Kit, DB15 Female / Female	7.40	6.81	6.22	5.62	5.03
DIY25MF	Do-It-Yourself Kit, DB25 Male / Female	8.10	7.45	6.80	6.16	5.51
DIY25MM	Do-It-Yourself Kit, DB25 Male / Male	7.95	7.31	6.68	6.04	5.41
DIY25FF	Do-It-Yourself Kit, DB25 Female / Female	8.25	7.59	6.93	6.27	5.61

RoHS Do-It-Yourself Kits - Create Custom Wired DB25 to DB9 Interface Adapters

DIY259MF	Do-It-Yourself Kit, DB25 Male / DB9 Female	6.75	6.21	5.67	5.13	4.59
DIY259FF	Do-It-Yourself Kit, DB25 Female / DB9 Female	6.90	6.35	5.80	5.24	4.69
DIY259MM	Do-It-Yourself Kit, DB25 Male / DB9 Male	6.60	6.07	5.54	5.02	4.49
DIYW	Pre-tinned Jumpers, Pkg/25	2.00	1.84	1.68	1.52	1.36

RoHS Do-It-Yourself Kit - Utilizes 9 or HD15 Pin D-Subs and Metalized Shielded Case

DIY9CMF	Metalized DIY Kit, DB9 Male / Female	6.95	6.39	5.84	5.28	4.73
DIY-HD15CMF	Metalized DIY Kit, HD15 Male / Female	7.95	7.31	6.68	6.04	5.41
DIYW	Pre-tinned Jumpers, Pkg/25	2.00	1.84	1.68	1.52	1.36

Item #	Description	1-9	10-24	25-99	100-249	250-499
Data Jumper Box Kits - Include a PC Board to Simplify Data Line Adapter Design						
Every pin of the male or female D-Subminiature connector terminates to solder pads with drilled holes on each end of the adapters' PC board to make connection easy. Supplied with ten wires already stripped and tinned for permanent wiring to suit your needs. Many interfaces can be built such as null modems, pin reversers, etc. Supplied with a universal PC board already soldered in place, includes snap-on covers and appropriate connector hardware.						
DJB9MF	Plastic PCB Jumper Box, DB9 Male / Female	9.25	8.51	7.77	7.03	6.29
DJB15MF	Plastic PCB Jumper Box, DB15 Male / Female	10.45	9.61	8.78	7.94	7.11
DJB25MF	Plastic PCB Jumper Box, DB25 Male / Female	11.65	10.72	9.79	8.85	7.92

Deluxe Data Jumper Box Kits - Each Kit Features an Exclusive Metal Case for Rugged Use

The DJBS Series provides the easiest way to customize EIA232 interface devices. All 25 pins of the DB25 connector terminations are already soldered to the PCB. The board layout, with numbered traces and predrilled holes, makes it easy to wire your own adapter. Twenty pre-stripped connection jumpers, more than you need to solder for permanent wiring, are supplied. Many interfaces can be built such as null modems, pin reversers, you name it. Metal chrome covers provide shielding and the most compact case size possible. Appropriate hardware is provided with each unit.

DJBS	Metal PCB Jumper Box, DB25 Male / Female	12.65	11.64	10.63	9.61	8.60
DJBS-F	Metal PCB Jumper Box, DB25 Female / Female	12.95	11.91	10.88	9.84	8.81
DJBS-M	Metal PCB Jumper Box, DB25 Male / Male	12.75	11.73	10.71	9.69	8.67

Do-It-Yourself Adapter Kits - Program-Wired Without Using Tools or Soldering

L-com has devised the simplest form of program wiring EIA232 adapters that do not need insertion tools. Each DB25 connector has PC pins to accept a variety of four jumpers which finger push into mating pins for instant program wiring. The programming may be altered or converted at any time by simply repositioning the wires. This feature is useful for field use.

Note that the basic kits contain male and female D-Subs, nickel plated metal covers and appropriate hardware. No jumper wires are supplied and must be purchased separately. Female DB25 have permanently swaged threaded standoffs. Four basic jumper types will wire virtually all types of null modems.

DIYKS	Metal DIY Kit, DB25 Male / Female	12.45	11.45	10.46	9.46	8.47
DIYKS-F	Metal DIY Kit, DB25 Female / Female	12.60	11.59	10.58	9.58	8.57
DIYKS-M	Metal DIY Kit, DB25 Male / Male	12.30	11.32	10.33	9.35	8.36
TD-JS	Straight Jumper Wires, Female / Female, Pkg/5	1.99	1.83	1.67	1.51	CALL
TD-JF	Y Jumper Wires, Female / Male / Female, Pkg/5	2.99	2.75	2.51	2.27	CALL
TD-JP	Y Jumper Wires, Female / Female / Female, Pkg/5	2.99	2.75	2.51	2.27	CALL
TD-JT	Y Jumper Wires, Male / Female / Male, Pkg/5	2.99	2.75	2.51	2.27	CALL

RoHS Plastic D-Sub Half Cover Pairs - Popular Accessory to Assemble Custom Adapters

Choosing these D-Sub half cover pairs will satisfy most of your custom adapter requirements. These covers feature UL94V-0 rated plastic and are available in Gray or Black. They are supplied with the appropriate hardware to allow male/female or male/male cable connections. For female/female applications, you'll need two (2) additional hex standoffs (page 74).

DHP9G	Half Cover Pair, DB9, Gray Plastic	1.95	1.79	1.64	1.48	1.33
DHP15G	Half Cover Pair, DB15, Gray Plastic	2.15	1.98	1.81	1.63	1.46
DHP25G	Half Cover Pair, DB25, Gray Plastic	2.25	2.07	1.89	1.71	1.53
DHP9B	Half Cover Pair, DB9, Black Plastic	1.95	1.79	1.64	1.48	1.33
DHP15B	Half Cover Pair, DB15, Black Plastic	2.15	1.98	1.81	1.63	1.46
DHP25B	Half Cover Pair, DB25, Black Plastic	2.25	2.07	1.89	1.71	1.53

All Metal DB9 and DB25 Half Cover Pairs - Satisfy the Need for Being Compact and Rugged

The special design of these covers provides a smart look in adapter creation. All steel to take much abuse, with a heavy chrome plate to add attractiveness. Snaps together and comes apart easily. They are supplied with appropriate cable connector fastening hardware for male/female connections. See page 74 for additional hardware.

DHS9	Half Cover Pair, DB9, Nickel Plated Steel	2.35	2.16	1.97	1.79	1.60
DHS25	Half Cover Pair, DB25, Nickel Plated Steel	2.45	2.25	2.06	1.86	1.67

Deluxe Do-It-Yourself Kit - Crimp & Poke Field Assembly of EIA232 Custom Adapters

L-com offers three basic do-it-yourself kits with gender connections for you to choose from. Each kit includes: Two crimp & poke type DB25 connector housings, nickel plated snap-on metal covers and appropriate hardware. Order jumper wires and insertion/extraction tool separately. When ordering, be sure jumper types match gender of D-Subs in kits.

DIYRA	Crimp & Poke DIY Adapter Kit, DB25 Male / Female	7.95	7.31	6.68	6.04	5.41
DIYRA-F	Crimp & Poke DIY Adapter Kit, DB25 Female / Female	7.95	7.31	6.68	6.04	5.41
DIYRA-M	Crimp & Poke DIY Adapter Kit, DB25 Male / Male	7.95	7.31	6.68	6.04	5.41

RoHS Crimp & Poke Style Straight and Y Jumper Wires - Sold Only in Packs of 10

RA50M	Straight Jumper Wires, Male / Male, Pkg/10	2.99	2.75	2.51	2.27	CALL
RA50F	Straight Jumper Wires, Female / Female, Pkg/10	2.99	2.75	2.51	2.27	CALL
RA50MF	Straight Jumper Wires, Male / Female, Pkg/10	2.99	2.75	2.51	2.27	CALL
RA50MFM	Y Jumper Wires, Male / Female / Male, Pkg/10	3.99	3.67	3.35	3.03	CALL
RA50FMF	Y Jumper Wires, Female / Male / Female, Pkg/10	3.99	3.67	3.35	3.03	CALL
RA50FFF	Y Jumper Wires, Female / Female / Female, Pkg/10	3.99	3.67	3.35	3.03	CALL

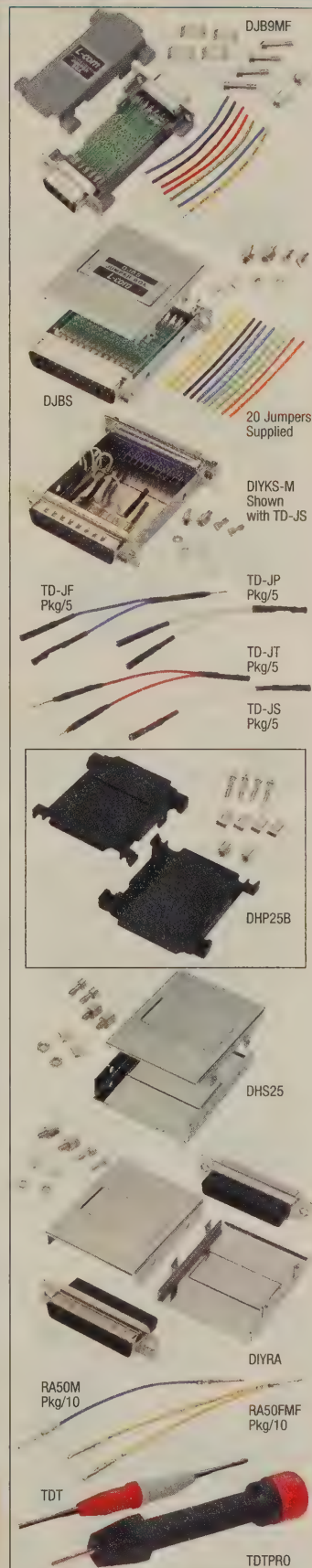
RoHS Insertion/Extraction Tools for Crimp & Poke Type Contacts - Professional and Economy Versions

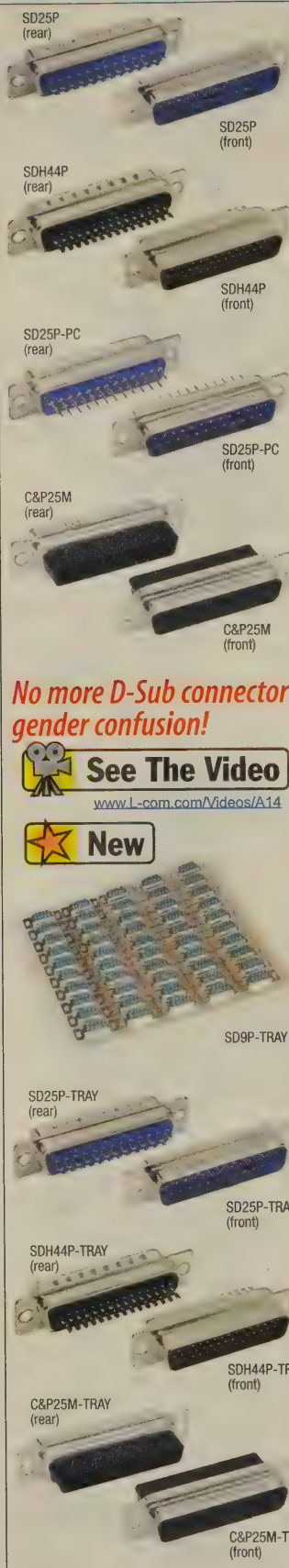
Two insertion/extraction tools are available for inserting contacts into D-Subs. The professional model is made for multiple insertions and is built on a larger, more ergonomic tool body. The economy version is also available when limited insertions are necessary.

TDT	Economy Contact Insertion/Extraction Tool	2.95	2.71	2.48	2.24	CALL
TDTPRO	Professional Contact Insertion/Extraction Tool	19.95	19.15	18.35	17.56	CALL

NOTE:

The adapter kits shown on these pages are also available completely wired and optionally provided with internal jumpers and circuit components. Your Sales Representative will be happy to address your needs.





No more D-Sub connector gender confusion!



See The Video

www.L-com.com/Videos/A14



New

Item #	Description	1-9	10-24	25-99	100-249	250-499
RoHS D-Sub Connectors-Choose from Solder Cup, Insertion Style or PC Termination Style Individually Packaged						
These D-Sub connectors conform to commercial industry standards and will mate with any opposite gender D-Sub connector. Contact plating is gold flash, connector insulator is UL94V-0 rated.						
SD9P	Solder Cup D-Sub Connector, DB9 Male	1.10	1.01	0.92	0.84	0.75
SD15P	Solder Cup D-Sub Connector, DB15 Male	1.25	1.15	1.05	0.95	0.85
SD25P	Solder Cup D-Sub Connector, DB25 Male	1.45	1.33	1.22	1.10	0.99
SD37P	Solder Cup D-Sub Connector, DB37 Male	4.40	4.05	3.70	3.34	2.99
SD50P	Solder Cup D-Sub Connector, DB50 Male	5.60	5.15	4.70	4.26	3.81
SD9S	Solder Cup D-Sub Connector, DB9 Female	1.15	1.06	0.97	0.87	0.78
SD15S	Solder Cup D-Sub Connector, DB15 Female	1.30	1.20	1.09	0.99	0.88
SD25S	Solder Cup D-Sub Connector, DB25 Female	1.55	1.43	1.30	1.18	1.05
SD37S	Solder Cup D-Sub Connector, DB37 Female	4.65	4.28	3.91	3.53	3.16
SD50S	Solder Cup D-Sub Connector, DB50 Female	5.90	5.43	4.96	4.48	4.01
RoHS Solder Cup High-Density D-Subminiature Connectors - Accept up to 20AWG Wires						
SDH15P	Solder Cup D-Sub Connector, HD15 Male	1.80	1.66	1.51	1.37	1.22
SDH26P	Solder Cup D-Sub Connector, HD26 Male	3.00	2.76	2.52	2.28	2.04
SDH44P	Solder Cup D-Sub Connector, HD44 Male	5.15	4.74	4.33	3.91	3.50
SDH62P	Solder Cup D-Sub Connector, HD62 Male	6.25	5.75	5.25	4.75	4.25
SDH78P	Solder Cup D-Sub Connector, HD78 Male	7.50	6.90	6.30	5.70	5.10
SDH15S	Solder Cup D-Sub Connector, HD15 Female	1.90	1.75	1.60	1.44	1.29
SDH26S	Solder Cup D-Sub Connector, HD26 Female	3.15	2.90	2.65	2.39	2.14
SDH44S	Solder Cup D-Sub Connector, HD44 Female	5.35	4.92	4.49	4.07	3.64
SDH62S	Solder Cup D-Sub Connector, HD62 Female	6.45	5.93	5.42	4.90	4.39
SDH78S	Solder Cup D-Sub Connector, HD78 Female	7.80	7.18	6.55	5.93	5.30
RoHS PC Termination D-Subminiature Connectors - Male and Female Genders						
SD9P-PC	PC Termination D-Sub Connector, DB9 Male	1.60	1.47	1.34	1.22	1.09
SD15P-PC	PC Termination D-Sub Connector, DB15 Male	2.35	2.16	1.97	1.79	1.60
SD25P-PC	PC Termination D-Sub Connector, DB25 Male	2.95	2.71	2.48	2.24	2.01
SD37P-PC	PC Termination D-Sub Connector, DB37 Male	5.65	5.20	4.75	4.29	3.84
SD9S-PC	PC Termination D-Sub Connector, DB9 Female	1.65	1.52	1.39	1.25	1.12
SD15S-PC	PC Termination D-Sub Connector, DB15 Female	2.40	2.21	2.02	1.82	1.63
SD25S-PC	PC Termination D-Sub Connector, DB25 Female	3.05	2.81	2.56	2.32	2.07
SD37S-PC	PC Termination D-Sub Connector, DB37 Female	5.85	5.38	4.91	4.45	3.98
RoHS Insertion Style D-Sub Connectors Accept Industry Standard Pins and Sockets						
C&P9M	Insertion Type D-Sub Connector, DB9 Male	0.70	0.64	0.59	0.53	0.48
C&P15M	Insertion Type D-Sub Connector, DB15 Male	0.80	0.74	0.67	0.61	0.54
C&P25M	Insertion Type D-Sub Connector, DB25 Male	0.90	0.83	0.76	0.68	0.61
C&P37M	Insertion Type D-Sub Connector, DB37 Male	2.45	2.25	2.06	1.86	1.67
C&P50M	Insertion Type D-Sub Connector, DB50 Male	4.05	3.73	3.40	3.08	2.75
C&P9F	Insertion Type D-Sub Connector, DB9 Female	0.80	0.74	0.67	0.61	0.54
C&P15F	Insertion Type D-Sub Connector, DB15 Female	0.90	0.83	0.76	0.68	0.61
C&P25F	Insertion Type D-Sub Connector, DB25 Female	1.00	0.92	0.84	0.76	0.68
C&P37F	Insertion Type D-Sub Connector, DB37 Female	2.55	2.35	2.14	1.94	1.73
C&P50F	Insertion Type D-Sub Connector, DB50 Female	4.15	3.82	3.49	3.15	2.82
RoHS D-Sub and HD Style Bulk Packaged Connectors - Solder and Crimp Styles						
Save time and money with these new D-Sub and HD style connector multi packs. Packed in convenient trays, these connectors are ideal for high volume production. Offered in both solder and crimp versions these connectors are perfect for all of your cable termination needs.						
SD9P-TRAY	Solder Cup D-Sub Connector, DB9 Male, Tray of 50	38.50	35.42	32.34	29.26	26.18
SD15P-TRAY	Solder Cup D-Sub Connector, DB15 Male, Tray of 70	61.25	56.35	51.45	46.55	41.65
SD25P-TRAY	Solder Cup D-Sub Connector, DB25 Male, Tray of 50	50.75	46.69	42.63	38.57	34.51
SD37P-TRAY	Solder Cup D-Sub Connector, DB37 Male, Tray of 40	123.20	113.34	103.49	93.63	83.78
SD50P-TRAY	Solder Cup D-Sub Connector, DB50 Male, Tray of 40	156.80	144.26	131.71	119.17	106.62
SD9S-TRAY	Solder Cup D-Sub Connector, DB9 Female, Tray of 50	40.25	37.03	33.81	30.59	27.37
SD15S-TRAY	Solder Cup D-Sub Connector, DB15 Female, Tray of 70	63.70	58.60	53.51	48.41	43.32
SD25S-TRAY	Solder Cup D-Sub Connector, DB25 Female, Tray of 50	54.25	49.91	45.57	41.23	36.89
SD37S-TRAY	Solder Cup D-Sub Connector, DB37 Female, Tray of 40	130.20	119.78	109.37	98.95	88.54
SD50S-TRAY	Solder Cup D-Sub Connector, DB50 Female, Tray of 40	165.20	151.98	138.77	125.55	112.34
RoHS Solder Cup High-Density D-Subminiature Connectors - Accept up to 20AWG Wires						
SDH15P-TRAY	Solder Cup D-Sub Connector, HD15 Male, Tray of 50	63.00	57.96	52.92	47.88	42.84
SDH26P-TRAY	Solder Cup D-Sub Connector, HD26 Male, Tray of 70	147.00	135.24	123.48	111.72	99.96
SDH44P-TRAY	Solder Cup D-Sub Connector, HD44 Male, Tray of 50	180.25	165.83	151.41	136.99	122.57
SDH62P-TRAY	Solder Cup D-Sub Connector, HD62 Male, Tray of 40	175.00	161.00	147.00	133.00	119.00
SDH78P-TRAY	Solder Cup D-Sub Connector, HD78 Male, Tray of 40	210.00	193.20	176.40	159.60	142.80
SDH15S-TRAY	Solder Cup D-Sub Connector, HD15 Female, Tray of 50	66.50	61.18	55.86	50.54	45.22
SDH26S-TRAY	Solder Cup D-Sub Connector, HD26 Female, Tray of 70	154.35	142.00	129.65	117.31	104.96
SDH44S-TRAY	Solder Cup D-Sub Connector, HD44 Female, Tray of 50	187.25	172.27	157.29	142.31	127.33
SDH62S-TRAY	Solder Cup D-Sub Connector, HD62 Female, Tray of 40	180.60	166.15	151.70	137.26	122.81
SDH78S-TRAY	Solder Cup D-Sub Connector, HD78 Female, Tray of 40	218.40	200.93	183.46	165.98	148.51
RoHS Insertion Style D-Sub Connectors Accept Industry Standard Pins and Sockets						
C&P9M-TRAY	Insertion Type D-Sub Connector, DB9 Male, Tray of 50	24.50	22.54	20.58	18.62	16.66
C&P15M-TRAY	Insertion Type D-Sub Connector, DB15 Male, Tray of 50	28.00	25.76	23.52	21.28	19.04
C&P25M-TRAY	Insertion Type D-Sub Connector, DB25 Male, Tray of 50	31.50	28.98	26.46	23.94	21.42
C&P37M-TRAY	Insertion Type D-Sub Connector, DB37 Male, Tray of 40	68.60	63.11	57.62	52.14	46.65
C&P50M-TRAY	Insertion Type D-Sub Connector, DB50 Male, Tray of 40	113.40	104.33	95.26	86.18	77.11
C&P9F-TRAY	Insertion Type D-Sub Connector, DB9 Female, Tray of 50	28.00	25.76	23.52	21.28	19.04
C&P15F-TRAY	Insertion Type D-Sub Connector, DB15 Female, Tray of 50	31.50	28.98	26.46	23.94	21.42
C&P25F-TRAY	Insertion Type D-Sub Connector, DB25 Female, Tray of 50	35.00	32.20	29.40	26.60	23.80
C&P37F-TRAY	Insertion Type D-Sub Connector, DB37 Female, Tray of 40	71.40	65.69	59.98	54.26	48.55
C&P50F-TRAY	Insertion Type D-Sub Connector, DB50 Female, Tray of 40	116.20	106.90	97.61	88.31	79.02



Item #	Description	1-9	10-24	25-99	100-249	250-499
✓RoHS Crimp & Poke Contacts - Choose Pins or Sockets, Flash or 30µ						
CPM10	Crimp & Poke Male Pins - Gold Flash, Pkg/10	2.50	2.30	2.10	1.90	1.70
CPM100	Crimp & Poke Male Pins - Gold Flash, Reel/100	15.00	13.80	12.60	11.40	10.20
CPM10-30U	Crimp & Poke Male Pins - 30µ Gold, Pkg/10	3.25	2.99	2.73	2.47	2.21
CPM100-30U	Crimp & Poke Male Pins - 30µ Gold, Reel/100	19.50	17.94	16.38	14.82	13.26
CPF10	Crimp & Poke Female Sockets - Gold Flash, Pkg/10	3.00	2.76	2.52	2.28	2.04
CPF100	Crimp & Poke Female Sockets - Gold Flash, Reel/100	18.00	16.56	15.12	13.68	12.24
CPF10-30U	Crimp & Poke Female Sockets - 30µ Gold, Pkg/10	3.75	3.45	3.15	2.85	2.55
CPF100-30U	Crimp & Poke Female Sockets - 30µ Gold, Reel/100	22.50	20.70	18.90	17.10	15.30

✓RoHS Insertion/Extraction Tools for Crimp & Poke Type Contacts - Professional and Economy Versions

Two insertion/extraction tools are available for inserting contacts into D-Subs. Professional model is made for multiple insertions and is built on a larger, more ergonomic tool body. The economy version is also available when limited insertions are necessary.

TDT	Economy Contact Insertion/Extraction Tool	2.95	2.71	2.48	2.24	CALL
TDTPRO	Professional Contact Insertion/Extraction Tool	19.95	19.15	18.35	17.56	CALL

D-Subminiature Contact Crimp Tool - For Crimp & Poke Series Pins and Sockets

Professional grade tool crimps D-Subminiature pins and sockets for 20-30AWG wires. Spring loaded holding mechanism centers and holds pin in place until crimping cycle is complete. Highest quality.

CP3127CT	D-Sub Contact Crimp Tool	120.00	112.80	105.60	98.40	CALL
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D-Sub Hood Covers - Offering a Better Selection for Your Varied Cable Making Needs

L-com offers a better selection of D-Sub hoods than ever before. We've discovered in our own cable production that needs are varied because users are more demanding in style selection than traditional plastic or metal hoods. They are supplied as kits with appropriate hardware for male mating. Order hex standoffs separately for female adaptation.

✓RoHS Plastic D-Sub Hoods - Features One Piece Foldover Hinge Design

One piece unshielded hoods are available for DB9, DB15, DB25 and DB50 sizes. They are constructed of Black plastic with long knurled thumbscrews. They feature a side snap lock for connector security and metal screw down strain relief. Attractive appearance.

SD121-09	Hinged Hood Kit, DB9 Black	1.45	1.33	1.22	1.10	0.99
SD121-15	Hinged Hood Kit, DB15 Black	1.55	1.43	1.30	1.18	1.05
SD121-25	Hinged Hood Kit, DB25 Black	1.65	1.52	1.39	1.25	1.12
SD121-50	Hinged Hood Kit, DB50 Black	2.05	1.89	1.72	1.56	1.39

Metalized Plastic D-Sub Hoods - Low Profile and Contemporary Style and Finish

These hoods are offered in three basic sizes, in attractive matte metalized (shielded) finish. Well constructed with metal strain relief bar, two screw closure and long knurled thumbscrews.

SDRS09HOT	Assembled Hood Kit, DB9 Matte Chrome	1.90	1.75	1.60	1.44	1.29
SDRS15HOT	Assembled Hood Kit, DB15 Matte Chrome	2.00	1.84	1.68	1.52	1.36
SDRS25HOT	Assembled Hood Kit, DB25 Matte Chrome	2.10	1.93	1.76	1.60	1.43

✓RoHS Plastic Hoods - Mate with D-Subminiature Connectors for Cabling

Molded plastic hoods are made of flame retardant materials. The metalized version is chrome plated providing conductivity and an RFI/EMI shield. A cable strain relief is also included.

SDC9G	Assembled Hood Kit, DB9 Gray	0.85	0.78	0.71	0.65	0.58
SDC15G	Assembled Hood Kit, DB15 Gray	1.00	0.92	0.84	0.76	0.68
SDC25G	Assembled Hood Kit, DB25 Gray	1.05	0.97	0.88	0.80	0.71
SDC37G	Assembled Hood Kit, DB37 Gray	1.20	1.10	1.01	0.91	0.82
SDC9B	Assembled Hood Kit, DB9 Black	0.90	0.83	0.76	0.68	0.61
SDC15B	Assembled Hood Kit, DB15 Black	1.05	0.97	0.88	0.80	0.71
SDC25B	Assembled Hood Kit, DB25 Black	1.10	1.01	0.92	0.84	0.75
SDC9M	Assembled Hood Kit, DB9 Metalized Chrome	1.05	0.97	0.88	0.80	0.71
SDC15M	Assembled Hood Kit, DB15 Metalized Chrome	1.25	1.15	1.05	0.95	0.85
SDC25M	Assembled Hood Kit, DB25 Metalized Chrome	1.35	1.24	1.13	1.03	0.92

✓RoHS D-Sub Metal Hood Kits - Choice of Five Grommets to Satisfy all Size Requirements

Cast alloy metal construction with a matte chrome plate finish over tin and copper for the best conductivity. Kit includes a set of five grommets and 4-40 thread mounting screws.

SDC9AG	Assembled Hood Kit, DB9 Metal	2.50	2.35	2.20	2.05	1.90
SDC15AG	Assembled Hood Kit, DB15 Metal	3.50	3.29	3.08	2.87	2.66
SDC25AG	Assembled Hood Kit, DB25 Metal	3.75	3.53	3.30	3.08	2.85
SDC37AG	Assembled Hood Kit, DB37 Metal	5.00	4.70	4.40	4.10	3.80
SDC50AG	Assembled Hood Kit, DB50 Metal	5.25	4.93	4.62	4.31	3.99

✓RoHS 4-40 Thumbscrews for SDC Metal and Plastic D-Sub Hood Kits

Nickel plated steel, knurled, slotted thumbscrews are now available for the entire SDC family of D-Sub hoods. These screws allow the user to secure or remove them either by hand or with a flat blade screwdriver.

04X44S	SDC Thumbscrew, 4-40 Thread	0.35	0.32	0.29	0.27	0.24
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✓RoHS Replacement Grommets for SDC and SDRA Metal Backshells

These grommets are the same as supplied with the SDC and SDRA metal backshell kits. Five different sizes are offered per backshell size to best fit cable diameter used.

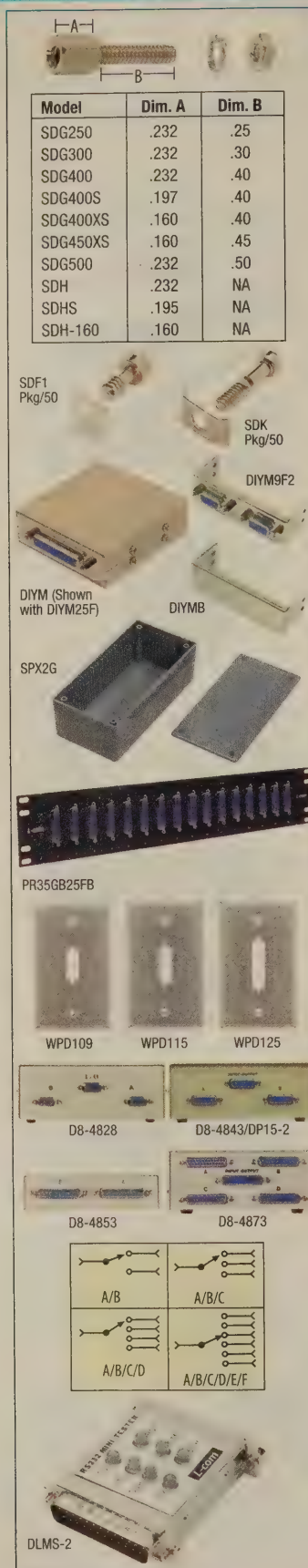
GROM-9&15	Replacement Grommets, SDC & SDRA 9/15 Metal Backshells	0.65	0.60	0.55	0.49	0.44
GROM-25	Replacement Grommets, SDC & SDRA 25 Metal Backshells	0.65	0.60	0.55	0.49	0.44
GROM-37&50	Replacement Grommets, SDC 37/50 Metal Backshells	0.75	0.69	0.63	0.57	0.51

✓RoHS Right Angle D-Sub Metal Hood Kits - Low Profile with Thumbscrews

Right angle hoods offered for applications requiring a 90 degree cable exit. Cast alloy metal construction with a nickel plated finish for the best conductivity. Kit includes five grommets and 4-40 threaded thumbscrews.

SDRA9AG	Right Angle Assembled Hood Kit, DB9 Metal	4.00	3.76	3.52	3.28	3.04
SDRA15AG	Right Angle Assembled Hood Kit, DB15 Metal	4.25	3.99	3.74	3.49	3.23
SDRA25AG	Right Angle Assembled Hood Kit, DB25 Metal	4.50	4.23	3.96	3.69	3.42





Item #	Description	Switch Type	1-9	10-24	25-99	100-249	250-499
RoHS 4-40 Hex Jack Screws - Difficult to Find Hardware for Mounting D-Sub Connectors							
SDG250	Jack Screw Kit, .25 inch Thread, .232 inch Screwlock, Pkg/50		14.00	13.16	12.32	11.48	10.64
SDG300	Jack Screw Kit, .30 inch Thread, .232 inch Screwlock, Pkg/50		14.00	13.16	12.32	11.48	10.64
SDG400	Jack Screw Kit, .40 inch Thread, .232 inch Screwlock, Pkg/50		14.00	13.16	12.32	11.48	10.64
SDG400S	Jack Screw Kit, .40 inch Thread, .197 inch Screwlock, Pkg/50		14.00	13.16	12.32	11.48	10.64
SDG400XS	Jack Screw Kit, .40 inch Thread, .160 inch Screwlock, Pkg/50		14.00	13.16	12.32	11.48	10.64
SDG450XS	Jack Screw Kit, .45 inch Thread, .160 inch Screwlock, Pkg/50		14.00	13.16	12.32	11.48	10.64
SDG500	Jack Screw Kit, .50 inch Thread, .232 inch Screwlock, Pkg/50		14.00	13.16	12.32	11.48	10.64
RoHS Hex Standoff 4-40 Thread - Needed with Hood Kits to Convert Male to Female							
SDH	Hex Standoffs, .232 inch Hex, Pkg/50		8.55	8.04	7.52	7.01	6.50
SDHS	Hex Standoffs, .195 inch Hex, Pkg/50		8.55	8.04	7.52	7.01	6.50
SDH-160	Hex Standoffs, .160 inch Hex, Pkg/50		8.55	8.04	7.52	7.01	6.50
RoHS 4-40 Screw and Retainer Pair - For Use on Male D-Sub Connectors with Metal Tabs							
SDF1	Screws and Retainers, Chromate, Pkg/50		12.00	11.28	10.56	9.84	9.12
RoHS 4-40 Screw and Guard - Replacement for Cable Connector Hoods Such as SDC Series							
SDK	Screws and Guards, Nickel Plate, Pkg/50		5.45	5.01	4.58	4.14	3.71
Do-it-Yourself Adapter Case Kits - Selection Features All Metal Construction							
DIYM	Metal Case, Pair 3" x 3" x 1" Overall Size		9.50	9.31	9.12	8.93	8.74
DIYM9F	End Cap with DB9F, Solder Type		7.50	7.35	7.20	7.05	6.90
DIYM9F2	End Cap with 2 DB9F, Solder Type		8.00	7.84	7.68	7.52	7.36
DIYM25F	End Cap with DB25F, Solder Type		8.00	7.84	7.68	7.52	7.36
DIYM37F	End Cap with DB37F, Solder Type		10.00	9.80	9.60	9.40	9.20
DIYMC	End Cap with 0.5" Diameter Hole		5.25	5.15	5.04	4.93	4.83
DIYMB	End Cap, Blank (No Cutouts)		5.25	5.15	5.04	4.93	4.83
Universal Cases - Slotted Guides on all Interior Sides to Accept .062" PC Boards							
SPX1G	Universal Case, 100L x 50W x 40H (mm), Gray, with Plastic Cover		1.95	1.83	1.72	1.60	1.48
SPX2G	Universal Case, 125L x 60W x 40H (mm), Gray, with Plastic Cover		2.75	2.59	2.42	2.26	2.09
SPX3G	Universal Case, 145L x 85W x 50H (mm), Gray, with Plastic Cover		3.65	3.43	3.21	2.99	2.77
RoHS Patch Panels - Equipped with 16 Slim D-Sub Adapters for Fast Connect/Disconnect							
PR35GB9FB	3.50" Panel, 16 DB9 Adapters, Female / Female		109.95	101.15	92.36	83.56	CALL
PR35GB15FB	3.50" Panel, 16 DB15 Adapters, Female / Female		124.95	114.95	104.96	94.96	CALL
PR35GB25FB	3.50" Panel, 16 DB25 Adapters, Female / Female		139.95	128.75	117.56	106.36	CALL
RoHS Stainless Wall Plates - Accept a Variety of D-Sub Connectors							
WPD109	Stainless Wall Plate, One DB9 / HD15 Opening		2.60	2.44	2.29	2.13	1.98
WPD115	Stainless Wall Plate, One DB15 / HD26 Opening		2.60	2.44	2.29	2.13	1.98
WPD125	Stainless Wall Plate, One DB25 / HD44 Opening		2.60	2.44	2.29	2.13	1.98
Transfer Switch Boxes Add Flexibility to Use of Computers and Peripherals							
These manual switch boxes are economical in price and great for simple switching of commonly used data line types. Metal boxes are utilized for all models and all connector pins are fully populated and wired straight through. The switching illustrations shown will help you select which manual switch to use when interfacing your computer and peripherals.							
DB9 Transfer Switch Boxes							
D8-4803	DB9 2 Way Switch Box	A/B	14.95	14.05	13.16	12.26	11.36
D8-4808	DB9 4 Way Switch Box	A/B/C/D	19.95	18.75	17.56	16.36	15.16
High Density 15 Pin Transfer Switch Boxes							
D8-4828	HD15 2 Way Switch Box	A/B	14.95	14.05	13.16	12.26	11.36
D8-4833	HD15 4 Way Switch Box	A/B/C/D	19.95	18.75	17.56	16.36	15.16
DB15 and DB25 Transfer Switch Boxes							
D8-4843/DP15-2	DB15 2 Way Switch Box	A/B	24.95	23.45	21.96	20.46	18.96
D8-4853	DB25 2 Way Switch Box	A/B	14.95	14.05	13.16	12.26	11.36
D8-4858	DB25 3 Way Switch Box	A/B/C	19.95	18.75	17.56	16.36	15.16
D8-4873	DB25 4 Way Switch Box	A/B/C/D	24.95	23.45	21.96	20.46	18.96
D8-4880/DP25-6	DB25 6 Way Switch Box	A/B/C/D/E/F	34.95	32.85	30.76	28.66	26.56
Centronics 36 Transfer Switch Box							
D8-4898	Centronics 36 4 Way Switch Box	A/B/C/D	34.95	32.85	30.76	28.66	26.56
Deluxe Data Line Monitor - With Bipolar Red and Green LEDs to Test EIA232 Lines							
The DLMS-2 provides the user with the ability to determine the true status of the operating port. When the data line monitor is inserted between the data terminal and the data transmission equipment, it continuously monitors and displays the seven most critical lines of the EIA232 data path. The indicators show Red for a positive high and Green for a negative low. The monitored lines are: Transmit Data (TD) pin 2, Receive Data (RD) pin 3, Request to Send (RTS) pin 4, Clear to Send (CTS) pin 5, Data Set Ready (DSR) pin 6, Data Carrier Detect (DCD) pin 8 and Data Terminal Ready (DTR) pin 20. Each LED circuit draws about 3 ma and operates in the EIA range of 3.5 to 25 volts. A prime feature is the chrome plated metal enclosure that provides shielding and has the ability to take extensive abuse.							
DLMS-2	Deluxe Data Line Monitor, DB25 Male / Female		19.95	18.35	16.76	15.16	13.57



Item #	Description	1-9	10-24	25-99	100-249	250-499
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Waterproof D-Sub Connectors and Backshells - IEC IP67 Rated

Harsh outdoor or indoor environments can destroy electronic equipment. Standard D-Sub connectors are not intended to withstand contaminants such as water and dust. By utilizing tough ABS housings, rubber gaskets and silicone insulating rings, these products achieve IEC IP67 ratings. Panel mounted D-Sub solder connectors are rear mounted and fit into standard D-Sub holes. Backshells conform to a variety of cable diameters by adjusting the sealing nut. L-com will manufacture cable assemblies using waterproof backshells with modest minimum requirements.

RoHS Waterproof D-Sub Panel Mount Solder Connectors

These solder cup connectors are available in male or female genders and DB9, DB15, DB25 and HD15 sizes. They will accommodate wire ranges from 30 - 20AWG. Construction features gold plated brass contacts, nickel plated steel shells and a silicone insulating ring. Maximum recommended panel thickness is 0.078".

WPSD9P	Waterproof Panel Mount Solder Cup D-Sub Connector, DB9M	13.75	12.93	12.10	11.27	10.45
WPSD9S	Waterproof Panel Mount Solder Cup D-Sub Connector, DB9F	13.75	12.93	12.10	11.27	10.45
WPSD15P	Waterproof Panel Mount Solder Cup D-Sub Connector, DB15M	15.75	14.81	13.86	12.92	11.97
WPSD15S	Waterproof Panel Mount Solder Cup D-Sub Connector, DB15F	15.75	14.81	13.86	12.92	11.97
WPSD25P	Waterproof Panel Mount Solder Cup D-Sub Connector, DB25M	17.75	16.68	15.62	14.56	13.49
WPSD25S	Waterproof Panel Mount Solder Cup D-Sub Connector, DB25F	17.75	16.68	15.62	14.56	13.49
WPSDH15P	Waterproof Panel Mount Solder Cup D-Sub Connector, HD15M	15.75	14.81	13.86	12.92	11.97
WPSDH15S	Waterproof Panel Mount Solder Cup D-Sub Connector, HD15F	15.75	14.81	13.86	12.92	11.97

RoHS Waterproof D-Sub Connector Covers

L-com's WPSD series of waterproof covers are perfect for protecting D-subminiature connectors from contamination and moisture. Designed for harsh environments, these protective covers can be used with L-com's WPSD series waterproof D-sub connectors to ensure IP67 rated protection. Several versions are available for the most common D-sub connector styles including DB9 (HD15), DB15 and DB25.

WPSD1-CVR	Waterproof D-Sub Connector Cover, DB9 and HD15	6.50	6.11	5.72	5.33	4.94
WPSD2-CVR	Waterproof D-Sub Connector Cover, DB15	6.75	6.35	5.94	5.53	5.13
WPSD3-CVR	Waterproof D-Sub Connector Cover, DB25	7.00	6.58	6.16	5.74	5.32

RoHS Waterproof D-Sub Backshell Kits

These backshell kits include solder cup connectors and are also available in male or female genders and DB9, DB15, DB25 and HD15 sizes. The connectors will accommodate wire ranges from 30 - 20AWG. Backshell construction features ABS housings, nylon seals, nickel plated brass thumbscrews and rubber sealing gaskets to insure IEC IP67 rating. Color: Black.

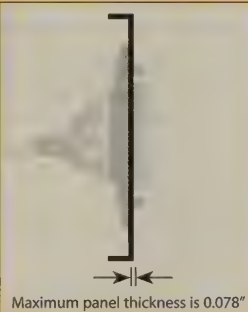
WPDB9P-KIT	Waterproof D-Sub Backshell Kit, DB9M	15.75	14.81	13.86	12.92	11.97
WPDB9S-KIT	Waterproof D-Sub Backshell Kit, DB9F	15.75	14.81	13.86	12.92	11.97
WPDB15P-KIT	Waterproof D-Sub Backshell Kit, DB15M	17.75	16.68	15.62	14.56	13.49
WPDB15S-KIT	Waterproof D-Sub Backshell Kit, DB15F	17.75	16.68	15.62	14.56	13.49
WPDB25P-KIT	Waterproof D-Sub Backshell Kit, DB25M	20.75	19.51	18.26	17.02	15.77
WPDB25S-KIT	Waterproof D-Sub Backshell Kit, DB25F	20.75	19.51	18.26	17.02	15.77
WPHDB15P-KIT	Waterproof D-Sub Backshell Kit, HD15M	13.75	12.65	11.55	10.45	9.35
WPHDB15S-KIT	Waterproof D-Sub Backshell Kit, HD15F	13.75	12.65	11.55	10.45	9.35

Tip How to apply panel mount waterproof D-Sub products

STEP 1

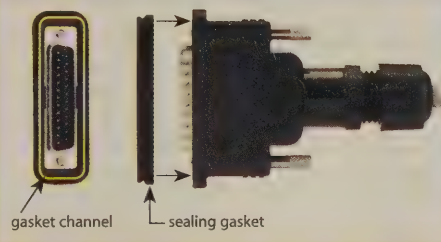


Mount D-Sub connector from inside of panel/enclosure using hex jack screws provided.



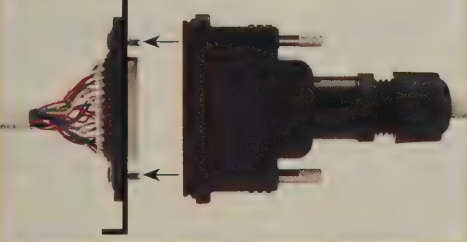
Maximum panel thickness is 0.078"

STEP 2



Apply sealing gasket (supplied with backshell kit) in backshell channel around perimeter of D-Sub connector.

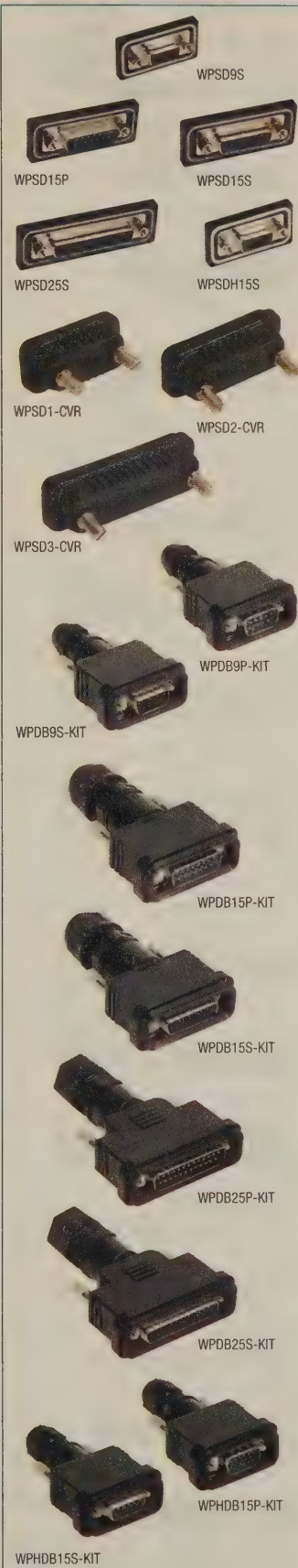
STEP 3



Mate connectors and secure backshell thumbscrews to threaded jack screws.



Waterproof IP67 rating is achieved by gaskets/seals in backshell and silicone seal ring in connector.



For more useful information go to...
www.L-com.com/Resources

L-com Global Connectivity

Multiconductor

CS4-100
• 4 Conductors



CS9-100
• 9 Conductors



CS15-100
• 15 Conductors



CS25-100
• 25 Conductors



Bulk Twisted Pair

CSTP5-100
• 5 Pair



CSTP125-100
• 12.5 Pair



CSTP19-100
• 19 Pair

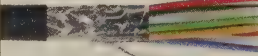


CSTP25-100
• 25 Pair



Low Smoke Zero Halogen

CSLSZH09-100
• 9 Conductors



CSLSZH15-100
• 15 Conductors



CSLSZH25-100
• 25 Conductors

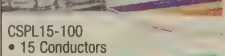


Plenum Hi-Temperature

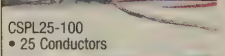
CSPL04-100
• 4 Conductors



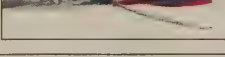
CSPL09-100
• 9 Conductors



CSPL15-100
• 15 Conductors



CSPL25-100
• 25 Conductors



Item #

Description

List Price

RoHS Bulk Multiconductor Data Cable - 24AWG Stranded Conductors

This is one of the most popular choices for data cable applications. Conductors are 24 AWG 7/32 stranded conductors with PVC insulation. Jacket is also PVC, color is Chrome Gray. Foil shielding with tinned drain wire. Choose from 4, 9, 15 or 25 conductors and 100 foot coils or 500 and 1,000 foot spools. UL and CSA Listed.

CS4-100	4 Conductor 24AWG Bulk Cable, 100 ft Coil	24.00
CS4-500	4 Conductor 24AWG Bulk Cable, 500 ft Spool	120.00
CS4-1000	4 Conductor 24AWG Bulk Cable, 1000 ft Spool	240.00
CS9-100	9 Conductor 24AWG Bulk Cable, 100 ft Coil	34.00
CS9-500	9 Conductor 24AWG Bulk Cable, 500 ft Spool	170.00
CS9-1000	9 Conductor 24AWG Bulk Cable, 1000 ft Spool	340.00
CS15-100	15 Conductor 24AWG Bulk Cable, 100 ft Coil	50.00
CS15-500	15 Conductor 24AWG Bulk Cable, 500 ft Spool	250.00
CS15-1000	15 Conductor 24AWG Bulk Cable, 1000 ft Spool	500.00
CS25-100	25 Conductor 24AWG Bulk Cable, 100 ft Coil	80.00
CS25-500	25 Conductor 24AWG Bulk Cable, 500 ft Spool	400.00
CS25-1000	25 Conductor 24AWG Bulk Cable, 1000 ft Spool	800.00

RoHS Bulk Twisted Pair Data Cable - Double Shielded, 26 AWG Stranded Conductors

Twisted pair bulk cable features difficult to find 26 AWG conductors with foil, drain wire and braid shield as well as a flexible PVC jacket. Choose from 5, 12.5, 19, or 25 pairs in 100, 500 or 1,000 foot spools. Jacket color is Light Gray.

CSTP5-100	5 Pair 26AWG Bulk Cable, 100 ft Spool	54.00
CSTP5-500	5 Pair 26AWG Bulk Cable, 500 ft Spool	270.00
CSTP5-1000	5 Pair 26AWG Bulk Cable, 1000 ft Spool	540.00
CSTP125-100	12.5 Pair 26AWG Bulk Cable, 100 ft Spool	130.00
CSTP125-500	12.5 Pair 26AWG Bulk Cable, 500 ft Spool	650.00
CSTP125-1000	12.5 Pair 26AWG Bulk Cable, 1000 ft Spool	1300.00
CSTP19-100	19 Pair 26AWG Bulk Cable, 100 ft Spool	160.00
CSTP19-500	19 Pair 26AWG Bulk Cable, 500 ft Spool	800.00
CSTP19-1000	19 Pair 26AWG Bulk Cable, 1000 ft Spool	1600.00
CSTP25-100	25 Pair 26AWG Bulk Cable, 100 ft Spool	270.00
CSTP25-500	25 Pair 26AWG Bulk Cable, 500 ft Spool	1350.00

RoHS Low Smoke Zero Halogen Data Cable - Double Shielded, 24 AWG Stranded Conductors

Low smoke zero halogen cable reduces the amount of toxic and corrosive gasses emitted during combustion. Typically used in poorly ventilated areas, low smoke zero halogen is becoming very popular with military contractors. Cable construction features 24 AWG stranded tinned copper conductors with high density polyethylene insulation, overall aluminum polyester foil shield with tinned copper braid and a 24 AWG drain wire. Cable jacket color is Black. Choose from 9, 15, or 25 conductor cable and 100, 500, or 1,000 foot put ups. L-com will manufacture cable assemblies featuring low smoke zero halogen cable with modest minimum requirements.

CSLSZH09-100	9 Conductor 24AWG LSZH Bulk Cable, 100 ft Coil	70.00
CSLSZH09-500	9 Conductor 24AWG LSZH Bulk Cable, 500 ft Spool	350.00
CSLSZH09-1000	9 Conductor 24AWG LSZH Bulk Cable, 1000 ft Spool	700.00
CSLSZH15-100	15 Conductor 24AWG LSZH Bulk Cable, 100 ft Coil	120.00
CSLSZH15-500	15 Conductor 24AWG LSZH Bulk Cable, 500 ft Spool	600.00
CSLSZH15-1000	15 Conductor 24AWG LSZH Bulk Cable, 1000 ft Spool	1200.00
CSLSZH25-100	25 Conductor 24AWG LSZH Bulk Cable, 100 ft Coil	150.00
CSLSZH25-500	25 Conductor 24AWG LSZH Bulk Cable, 500 ft Spool	750.00
CSLSZH25-1000	25 Conductor 24AWG LSZH Bulk Cable, 1000 ft Spool	1500.00

RoHS Plenum, Hi-Temperature Data Cable - Shielded, 24AWG Stranded Conductors, -40°C to 150°C

Some harsh environments require protection beyond the capabilities of PVC. Halar (thermoplastic fluoropolymer) insulated cable provides excellent thermal characteristics, electrical properties and chemical resistance. Cable construction features 24AWG stranded tinned copper conductors, overall aluminum/mylar shield with 24AWG drain wire and Halar insulated conductors and cable jacket. Cable jacket color is Clear. Choose from 4, 9, 15, or 25 conductor cable and 100, 500, or 1,000 foot put ups. L-com will manufacture cable assemblies featuring plenum cable with modest minimum requirements.

CSPL04-100	4 Conductor 24 AWG Plenum Bulk Cable, 100 ft Coil	60.00
CSPL04-500	4 Conductor 24 AWG Plenum Bulk Cable, 500 ft Spool	300.00
CSPL04-1000	4 Conductor 24 AWG Plenum Bulk Cable, 1000 ft Spool	600.00
CSPL09-100	9 Conductor 24 AWG Plenum Bulk Cable, 100 ft Coil	110.00
CSPL09-500	9 Conductor 24 AWG Plenum Bulk Cable, 500 ft Spool	550.00
CSPL09-1000	9 Conductor 24 AWG Plenum Bulk Cable, 1000 ft Spool	1100.00
CSPL15-100	15 Conductor 24 AWG Plenum Bulk Cable, 100 ft Coil	170.00
CSPL15-500	15 Conductor 24 AWG Plenum Bulk Cable, 500 ft Spool	850.00
CSPL15-1000	15 Conductor 24 AWG Plenum Bulk Cable, 1000 ft Spool	1700.00
CSPL25-100	25 Conductor 24 AWG Plenum Bulk Cable, 100 ft Coil	240.00
CSPL25-500	25 Conductor 24 AWG Plenum Bulk Cable, 500 ft Spool	1200.00
CSPL25-1000	25 Conductor 24 AWG Plenum Bulk Cable, 1000 ft Spool	2400.00



Copper wire current carrying capacity

Current carrying capacity is the maximum number of amperes (amps) that can flow through a conductor before it breaks down. Many factors determine actual current carrying capacity including conductor size, temperature, number of bundled conductors, air flow and insulation material and thickness. Therefore, this chart should only be used as a general guideline to determine actual performance.

Note: Figures based on 30°C ambient temperature
Units are measured in Amps
x = Current reduction factor
Reduction factors apply when conductors are bundled

INSULATION MATERIAL	WIRE SIZE						
	30AWG	28AWG	26AWG	24AWG	22AWG	20AWG	18AWG
PVC - Standard Data Cables (CS, CSTP, DK, CSM, CSMN, CS2N, CHD, CRMN)	2x	3x	4x	6x	8x	10x	15x
Polyethylene - Low Smoke, Zero Halogen Cable (CSLSZH)	3x	4x	5x	7x	9x	12x	17x
Halar - Plenum, High Temperature Data Cable (CSPL)	3x	5x	6x	8x	11x	14x	20x

# Bundled Conductors	Reduction Factor (x)
2-5	0.8
6-15	0.7
16-30	0.5

Example:

Q: What is the estimated current capacity for L-com data cable CSMN9MM-10?

A: The important factors are:

1) 26AWG conductors, 2) PVC Insulation, 3) 9 Conductors.

The current rating is: $[4x(x=0.7)] = 2.8$ Amps per conductor.



Item #	Description	1-9	10-24	25-99	100-249	250-499
Heavy Duty Cable Cutter - Cuts Copper Multiconductor Cable Clean						
This heavy duty cable cutter is ideal for performing clean cuts of multiconductor cable. It offers steel construction and high leverage-extra sharp shears. The HTC60 measures 9.5" in length and can cut copper multiconductor cabling up to 3/4" diameter. Comfortable to use plastic dipped handles.						
HTC60	Cable Cutter - to 3/4 inch diameter	19.95	18.35	16.76	15.16	13.57

Copper Wire and Light Cable Shears

The HTC1620 is a shear type wire and cable cutter. Straight blades provide clean cuts on soft multiconductor cable up to 3/8" diameter. The tool can also cut copper wire up to 10AWG. Spring return limits user fatigue by re-opening blades after cut. Includes locking lever to keep blades closed when not in use. Steel construction and plastic coated handles.

HTC1620	Copper and Wire Shears	8.95	8.23	7.52	6.80	6.09
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Wire Stripper and Shear - Up to 20 AWG Conductors

The HTC2030 is similar in design to the HTC1620 except it has 6 circular notches for stripping 20-30AWG wires. The tool also has a small shearing surface for cutting wires. Spring loaded design returns blades to open after use, locking mechanism keeps blades closed when not in use. Steel construction, plastic coated handles.

HTC2030	Wire Stripper and Shear	9.95	9.15	8.36	7.56	6.77
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Rotary Cable Stripper - Cuts Cable Jacket Lengthwise

These tools are designed for stripping cable with outer diameters from 1/8" to approximately 1". The incision depth can be regulated with a simple turn of a knurled screw. Cable jacket can be cut either lengthwise or in a spiral form. To slit cable jacket lengthwise requires only a turn of a lever and pulling the tool along the cable, keeping the lever in position. Tough insulation can be cut in spirals.

A spring-loaded support pushes the cable onto the knife. The cable cut can be accomplished by turning the tool in either direction around the cable and the cut insulation can be dismantled with the cable support at the end of the tool. Choose RCS10 for more occasional uses and the RCS20 for more heavy duty use.

RCS10	Economy Rotary Cable Stripper	14.95	13.75	12.56	11.36	10.17
RCS20	Heavy Duty Rotary Cable Stripper	29.95	27.55	25.16	22.76	20.37

RoHS Cable Ties - 4 Sizes in Packs of 100 Pieces

Cable ties come in handy to secure cable assemblies in different applications. Four different sizes are available in packages of 100 pieces each. Color is Black.

CTB-05	6 inch Cable Ties, Pkg/100	6.95	6.53	6.12	5.70	CALL
CTB-07	8 inch Cable Ties, Pkg/100	7.95	7.47	7.00	6.52	CALL
CTB-09	8.5 inch Cable Ties, Pkg/100	8.95	8.41	7.88	7.34	CALL
CTB-12	11.5 inch Cable Ties, Pkg/100	9.95	9.35	8.76	8.16	CALL

Precut Shrink Tubing for Insulating Solder Cups - Packages of 100

This polyolefin shrink tubing is perfectly cut for insulating solder cups on D-Subs. Shrink tubing is 3/32" diameter before shrinkage, the length is 3/8". Packaged in bags of 100 pieces. Color: Black.

SPV332-38	3/32 inch D x 3/8 inch L Shrink Tubing, Pkg/100	4.95	4.65	4.36	4.06	3.76
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3M Heat Shrink Tubing Kits

3M's popular kits are versatile assortments of flexible polyolefin heat shrink tubing used in a variety of electronic and electrical applications. Each kit is packaged in a plastic box. These kits allow the engineer, designer or technician a selection of popular sizes and colors for small projects and prototypes. The black kit contains 102 pieces of six inch long tubing in six sizes ranging from 3/16 to 1 inch inside diameter. The color kit contains 133 pieces of six inch long tubing in six sizes ranging from 3/32 to 1/2 inch inside diameter and seven colors. Shrink ratio is 2:1.

SPVFP301-BLK	Heat Shrink Kit, Black Colors	57.95	55.63	53.31	51.00	48.68
SPVFP301-ASST	Heat Shrink Kit, Assorted Colors	57.95	55.63	53.31	51.00	48.68

RoHS 3M Copper Foil Shielding Tape with Conductive Adhesive

Copper foil shielding tape provides an easy to apply, time saving, cost effective way to shield against EM/RFI radiation. This tape is conductive through the adhesive and offers mechanical, electrical and thermal values to meet shielding effectiveness frequency requirements. Meets UL 510 flame retardancy requirements. 3/8" width is ideal for securing cable shields to backshell grommets. See page 73 for complete backshell offering.

TAP1181-3/8	Copper Foil Shielding Tape, 2.6 MIL x 3/8 inch W x 18 Yards	15.50	14.88	14.26	13.64	13.02
TAP1181-3/4	Copper Foil Shielding Tape, 2.6 MIL x 3/4 inch W x 18 Yards	30.50	29.28	28.06	26.84	25.62

RoHS Cable Labels - Wraparound Style, 3 Sizes to Choose From

We've had multiple requests for wraparound style write on labels to use for cable identification. They are now available, packaged in 30 pieces per package for the occasional user versus 1000 piece packs found elsewhere. Just write or type on the white part of the label, then wrap the clear part over to prevent smudging. There are three sizes to choose from: CL0515 up to 0.275 inch diameter, CL1150 up to 0.275 inch diameter and CL1375 up to 1.000 inch diameter.

CL0515	0.5 in x 1.5 in Wraparound Cable Label, Pkg/30	5.95	5.83	5.71	5.59	5.47
CL1150	1.0 in x 1.5 in Wraparound Cable Label, Pkg/30	7.95	7.79	7.63	7.47	7.31
CL1375	1.0 in x 3.75 in Wraparound Cable Label, Pkg/30	5.95	5.83	5.71	5.59	5.47



HTC60



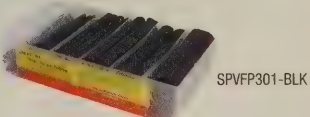
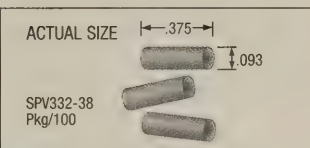
HTC1620



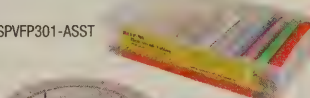
HTC2030



RCS10

CTB-12
Pkg/100CTB-09
Pkg/100

SPVFP301-BLK

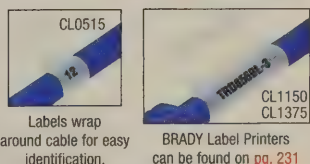


SPVFP301-ASST



TAP1181-3/4

TAP1181-3/8



CL0515

Labels wrap
around cable for easy
identification.CL1150
CL1375BRADY Label Printers
can be found on pg. 231

Tips

Easy-to-understand tips to help with some of today's popular product applications. L-com.com/Tips



USB Connectors Tutorial



What is USB?

Universal Serial Bus is a high speed connectivity standard enabling simple plug and play connections to devices such as modems, digital cameras, camcorders, keyboards and mice. The standard is being supported by many leading suppliers of computers and peripherals. An attractive advantage of USB is that the devices are hot pluggable meaning a live connection/disconnection without data loss or interruption. Devices manufactured to the current USB Revision 2.0 specification are backward compatible with version 1.1.

Applications

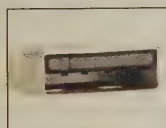
Initially USB products were used mainly to link computers and their associated peripherals. Today USB is used in nearly every market including communications, entertainment, medical and automotive.



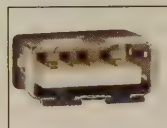
For more useful information go to....
www.L-com.com/Resources

USB Connectors

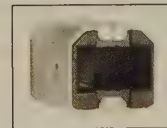
The USB specification requires a host system to be equipped with an A type jack. The B type jack is typically found on peripheral devices requiring detachable cables. Therefore, detachable USB cables are configured as an A to B male combination which prevents improper bus configurations and topology miswiring.



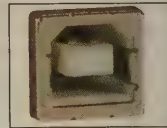
Type A Plug
(4 position)



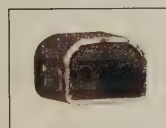
Type A Jack
(4 position)



Type B Plug
(4 position)



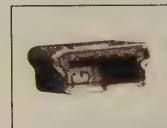
Type B Jack
(4 position)



Mini Type B Plug
(4 position)



Mini Type B Jack
(4 position)

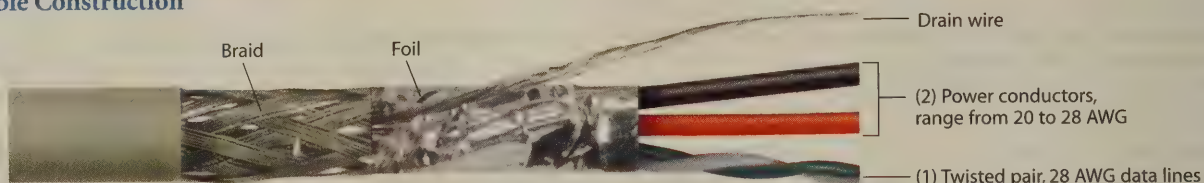


Mini Type B Plug
(5 position)



Mini Type B Jack
(5 position)

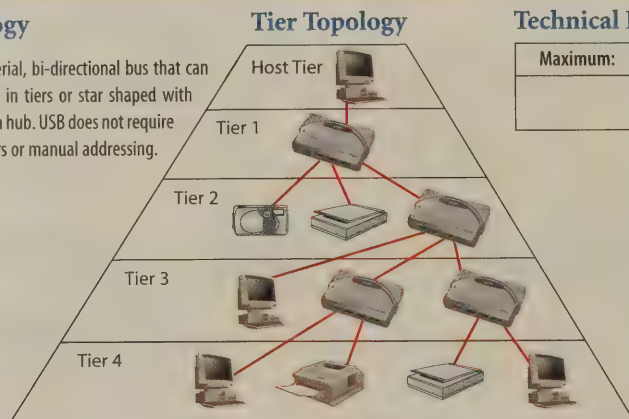
USB Cable Construction



L-com's CSMUAA, CSMUAB, CSMUAX and CSUZAB cable series use 20 AWG power conductors. All CSMUAMB (Mini B) cable series use 28 AWG power conductors. ECUSB series uses 26 AWG power conductors, WPUSB series uses 24 AWG power conductors.

Topology

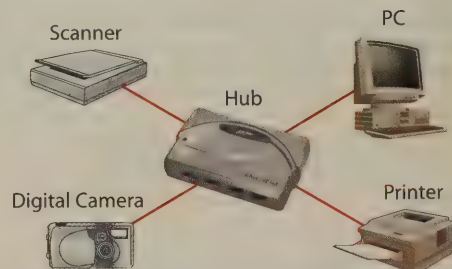
USB is a serial, bi-directional bus that can be layered in tiers or star shaped with the use of a hub. USB does not require terminators or manual addressing.

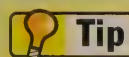


Technical Data: USB Limitations

Maximum:	Transmission Rate	Cable Length/ Node	Devices/ Bus	Tiers/ Bus
	Rev. 2.0, 480Mbps Rev. 1.1, 12Mbps	5 meters	127	5

Star Topology



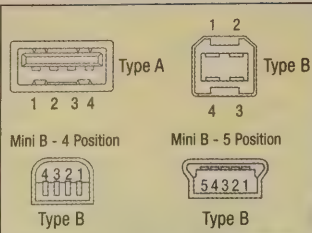


Selecting the right USB cable assembly for your application

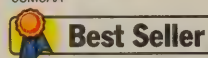
L-com takes pride in having a large variety of USB cables. The following selection guide is intended to assist you in selecting the right cable for your need.

Cable Series	Connector Types	Photo	Color	Power Lead Wire AWG	Distinguishing Characteristics
CSMUAB	Male Type A - Male Type B		Light Gray	20	Superior electrical performance compared to industry standard cables - 20 AWG power leads provide maximum current/power transfer
CSMUAA	Male Type A - Male Type A		Light Gray	20	Superior electrical performance compared to industry standard cables - 20 AWG power leads provide maximum current/power transfer
ECUSBAB	Male Type A - Male Type B		Gray	26	Industry standard USB cable suitable in most applications and comparable to competitors cables
CSMUAX	Male Type A - Female Type A		Light Gray	20	Extension cable. Superior electrical performance compared to industry standard cables - 20 AWG power leads provide maximum current/power transfer
CSUZAB	Male Type A - Male Type B		Black	20	Low Smoke Zero Halogen (LSZH) jacket and backshell material significantly reduce the amount of toxic and corrosive gases emitted during combustion. 20 AWG power leads provide maximum current/power transfer
CSMUAMB4	Male Type A - Male Mini-Type B 4 Position		Black	28	Typically used with digital cameras, MP3 players and other small portable devices
CSMUAMB5	Male Type A - Male Mini-Type B 5 Position		Black	28	Most common mini USB connector. Used with digital cameras, MP3 players, cell phones and other small portable devices as well as some GPS units
ECF504-XXAAS	Female Type A Panel Mount - Male Type A		Light Gray	20	Efficiently allows USB cables to be passed through a panel or enclosure. Utilizes metalized plastic housing. 20 AWG power leads provide maximum current/power transfer
ECF504-5M	Female Type A Panel Mount - Cut End		Light Gray	20	Efficiently allows USB cables to be passed through a panel or enclosure. Utilizes metalized plastic housing. Cut end allows user to configure their own assembly or hard wire. 20 AWG power leads provide maximum current/power transfer
UPMAA	Female Type A Panel Mount - Male Type A		Light Gray	20	Efficiently allows USB cables to be passed through a panel or enclosure. Utilizes molded PVC housing. 20 AWG power leads provide maximum current/power transfer
UPMA5	Female Type A Panel Mount - 5 Pin Female Header Connector		Gray	26	Efficiently allows USB cables to be passed through a panel or enclosure. Utilizes molded PVC housing. 5 pin connector mates to standard 0.100" centerline headers
CSMUAXMT-2M	Female Type A Mounting - Male Type A		Light Gray	20	Extends USB computer port for easy mounting via screws or double sided foam tape. 20 AWG power leads provide maximum current/power transfer
COILUAB	Latching Male Type A - Male Type B		Black	28	Latching A connector provides secure connection. Retractable polyurethane cord provides longer life and saves space when compared to standard cables
WPUSBAB	Waterproof Male Type A - Male Type B		Black	24	Waterproof A male mates with waterproof A female connectors to protect against dust, moisture and temporary immersion under water. IP67 rated
WPUSBAX	Waterproof Female Type A - Male Type A		Black	24	Waterproof A female is panel mountable. When mated with waterproof A male or capped with WPUSB-CVR, provides protection against dust, moisture, and temporary immersion under water. IP67 rated
WPUSBBA	Waterproof Female Type B - Male Type A		Black	24	Waterproof B female is panel mountable. When mated with waterproof B male or capped with WPUSB-CVR, provides protection against dust, moisture, and temporary immersion under water. IP67 rated
WPUSBBB	Waterproof Male Type B - Male Type B		Black	24	Waterproof B male mates with waterproof B female connectors to protect against dust, moisture and temporary immersion under water. IP67 rated
WPUSBAF	Waterproof Female Type A - Wire Leads		Various	24	Waterproof A female is panel mountable. When mated with waterproof A male or capped with WPUSB-CVR, provides protection against dust, moisture and temporary immersion under water. IP67 rated. Wire leads allows user to configure their own assembly or hard wire
WPUSBBF	Waterproof Female Type B - Wire Leads		Various	24	Waterproof B female is panel mountable. When mated with waterproof B male or capped with WPUSB-CVR, provides protection against dust, moisture and temporary immersion under water. IP67 rated. Wire leads allows user to configure their own assembly or hard wire

USB Plugs Mating Side Views



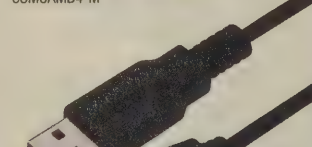
CSMUAA



CSMUAB-M



CSMUAMB4-M



CSMUAMB5-M



CSMUAX-M



ECUSBAB

Item #	Description	1-9	10-24	25-99	100-249	250-499
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Universal Serial Bus 2.0 (USB) Cable Assemblies Allow Transmission Speeds To 480 Mbps

Highest quality USB cables allow for transfer rates up to 480 Mbps. These cables allow for simple Plug and Play connections for devices such as printers, keyboards/mice, digital cameras and other USB peripherals. Twisted pair data lines help reduce crosstalk while heavy AWG power conductors enable maximum power transfer from host to peripheral.

RoHS Premium USB Cable - Type A - A Connectors, PVC Jacket, 30 Microinches Gold, 20 AWG Power Leads

CSMUAA-05M	Premium USB Type A - A Cable, 0.5m	8.45	7.77	7.10	6.42	5.75
CSMUAA-1M	Premium USB Type A - A Cable, 1.0m	8.95	8.23	7.52	6.80	6.09
CSMUAA-2M	Premium USB Type A - A Cable, 2.0m	9.95	9.15	8.36	7.56	6.77
CSMUAA-3M	Premium USB Type A - A Cable, 3.0m	10.95	10.07	9.20	8.32	7.45
CSMUAA-5M	Premium USB Type A - A Cable, 5.0m	12.95	11.91	10.88	9.84	8.81

RoHS Premium USB Cable - Type A - B Connectors, PVC Jacket, 30 Microinches Gold, 20 AWG Power Leads

CSMUAB-05M	Premium USB Type A - B Cable, 0.5m	6.95	6.39	5.84	5.28	4.73
CSMUAB-1M	Premium USB Type A - B Cable, 1.0m	7.45	6.85	6.26	5.66	5.07
CSMUAB-2M	Premium USB Type A - B Cable, 2.0m	8.45	7.77	7.10	6.42	5.75
CSMUAB-3M	Premium USB Type A - B Cable, 3.0m	9.45	8.69	7.94	7.18	6.43
CSMUAB-5M	Premium USB Type A - B Cable, 5.0m	11.45	10.53	9.62	8.70	7.79

RoHS Premium USB Cable - Type A - Mini B 4 Position, PVC Jacket, 30 Microinches Gold

CSMUAMB4-1M	Premium USB Type A - Mini B 4 Position Cable, 1.0m	9.35	8.41	7.48	6.54	5.61
CSMUAMB4-2M	Premium USB Type A - Mini B 4 Position Cable, 2.0m	10.70	9.63	8.56	7.49	6.42
CSMUAMB4-3M	Premium USB Type A - Mini B 4 Position Cable, 3.0m	12.05	10.85	9.64	8.44	7.23

RoHS Premium USB Cable - Type A - Mini B 5 Position, PVC Jacket, 30 Microinches Gold

CSMUAMB5-1M	Premium USB Type A - Mini B 5 Position Cable, 1.0m	9.35	8.41	7.48	6.54	5.61
CSMUAMB5-2M	Premium USB Type A - Mini B 5 Position Cable, 2.0m	10.70	9.63	8.56	7.49	6.42
CSMUAMB5-3M	Premium USB Type A - Mini B 5 Position Cable, 3.0m	12.05	10.85	9.64	8.44	7.23

RoHS Premium USB Extension Cable - Type A Connectors, PVC Jacket, 30 Microinches Gold, 20 AWG Power Leads

CSMUAX-1M	Premium USB Type A Male / Female Extension Cable, 1.0m	8.95	8.59	8.23	7.61	6.71
CSMUAX-2M	Premium USB Type A Male / Female Extension Cable, 2.0m	9.95	9.55	9.15	8.46	7.46
CSMUAX-3M	Premium USB Type A Male / Female Extension Cable, 3.0m	10.95	10.51	10.07	9.31	8.21

RoHS Deluxe USB Cables - Type A - B Connectors, Revision 2.0 Compliant

L-com's latest USB cable offering, the ECUSB series, provides high performance at competitive prices. These quality constructed cables feature USB 2.0 Compliant 26 AWG power leads and are finished in an attractive medium gray color. Each cable is functionally tested to ensure the highest level of quality and performance. These cables allow for transfer rates up to 480 Mbps and can be used with simple Plug and Play connections for devices such as printers, keyboards/mice, digital cameras and other USB peripherals.

ECUSBAB-05M	Deluxe USB Type A - B Cable, 0.5m	4.85	4.37	3.88	3.39	2.91
ECUSBAB-1M	Deluxe USB Type A - B Cable, 1.0m	5.25	4.73	4.20	3.68	3.15
ECUSBAB-2M	Deluxe USB Type A - B Cable, 2.0m	6.05	5.45	4.84	4.23	3.63
ECUSBAB-3M	Deluxe USB Type A - B Cable, 3.0m	6.85	6.17	5.48	4.79	4.11
ECUSBAB-4M	Deluxe USB Type A - B Cable, 4.0m	7.65	6.89	6.12	5.36	4.59
ECUSBAB-5M	Deluxe USB Type A - B Cable, 5.0m	8.45	7.61	6.76	5.91	5.07



Tip What is USB?

Universal Serial Bus is a high speed connectivity standard enabling simple Plug and Play connections to devices such as modems, digital cameras, camcorders, keyboards and mice. The standard is being supported by many leading suppliers of computers and peripherals. An advantage of USB is that the devices are hot pluggable meaning live connection/disconnection without data loss or interruption. Devices manufactured to the current USB Revision 2.0 specification are backward compatible with version 1.1.

The USB specification requires a host system to be equipped with an A type jack. The B type jack is typically found on peripheral devices requiring detachable cables. Therefore, detachable USB cables are configured as A to B male combination, preventing improper bus configurations and topology miswiring.

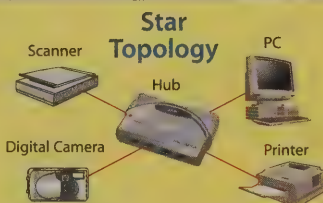
USB Cable Construction



L-com's CSMUAA, CSMUAB, CSMUAX and CSUZAB cable series use 20 AWG power conductors. All CSMUAMB (Mini B) cable series use 28 AWG power conductors. ECUSB series uses 26AWG power conductors, WPUAB series uses 24 AWG power conductors.

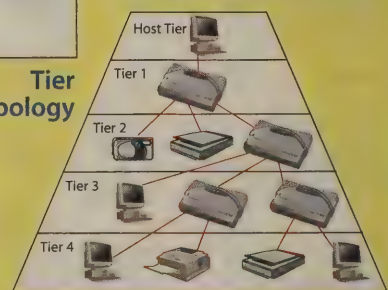
Topology

USB is a serial, bi-directional bus that can be layered in tiers or star shaped with the use of a hub. USB does not require terminators or manual addressing.



Star Topology

Tier Topology



USB Limitations

Transmission Rate:	Rev. 2.0, 480Mbps Rev. 1.1, 12Mbps
Cable Length/Node:	5 meters
Devices/Bus:	127
Tiers/Bus:	5

Item #	Description	1-9	10-24	25-99	100-249	250-499
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RoHS Waterproof USB Cable Assemblies - IEC IP67 Rated, Revision 2.0 Compliant

As USB interconnect systems gain in popularity, so do the demands on the cabling systems. Standard USB connectors are not intended to withstand contaminants such as water and dust. Our Waterproof USB cable assemblies utilize rugged, molded outer shells and a threaded coupling with an O-ring seal and are IEC IP67 rated. Four types of assemblies are offered in a variety of lengths. All feature molded backshells, revision 2.0 compliant fully shielded cable and threaded couplings. Color is Black.

WPUSBAB-2M	USB Cable, Waterproof Type A Male / Standard Type B Male, 2.0m	19.00	18.62	17.86	16.72	14.25
WPUSBAB-5M	USB Cable, Waterproof Type A Male / Standard Type B Male, 5.0m	22.00	21.56	20.68	19.36	16.50
WPUSBAX-05M	USB Cable, Waterproof Panel Mt. Type A Fem. / Std. Type A Male, 0.5m	17.50	17.15	16.45	15.40	13.13
WPUSBAX-1M	USB Cable, Waterproof Panel Mt. Type A Fem. / Std. Type A Male, 1.0m	18.00	17.64	16.92	15.84	13.50
WPUSBAX-2M	USB Cable, Waterproof Panel Mt. Type A Fem. / Std. Type A Male, 2.0m	19.00	18.62	17.86	16.72	14.25
WPUSBAX-3M	USB Cable, Waterproof Panel Mt. Type A Fem. / Std. Type A Male, 3.0m	20.00	19.60	18.80	17.60	15.00
WPUSBAX-5M	USB Cable, Waterproof Panel Mt. Type A Fem. / Std. Type A Male, 5.0m	22.00	21.56	20.68	19.36	16.50
WPUSBBA-05M	USB Cable, Waterproof Panel Mt. Type B Fem. / Std. Type A Male, 0.5m	17.50	17.15	16.45	15.40	13.13
WPUSBBA-1M	USB Cable, Waterproof Panel Mt. Type B Fem. / Std. Type A Male, 1.0m	18.00	17.64	16.92	15.84	13.50
WPUSBBA-2M	USB Cable, Waterproof Panel Mt. Type B Fem. / Std. Type A Male, 2.0m	19.00	18.62	17.86	16.72	14.25
WPUSBBA-3M	USB Cable, Waterproof Panel Mt. Type B Fem. / Std. Type A Male, 3.0m	20.00	19.60	18.80	17.60	15.00
WPUSBBA-5M	USB Cable, Waterproof Panel Mt. Type B Fem. / Std. Type A Male, 5.0m	22.00	21.56	20.68	19.36	16.50
WPUSBBB-2M	USB Cable, Waterproof Type A Male / Standard Type B Male, 2.0m	19.00	18.62	17.86	16.72	14.25
WPUSBBB-5M	USB Cable, Waterproof Type A Male / Standard Type B Male, 5.0m	22.00	21.56	20.68	19.36	16.50
WPUSB-CVR	USB Cover, Waterproof	4.35	4.09	3.83	3.57	3.31

RoHS Waterproof USB Jacks with 10" Wire Leads - Type A and Type B Available

This product is ideal for enclosures or panels that are exposed to harsh environments. Wire leads are 24 AWG and can easily be soldered into a PCB or terminated with a variety of connectors.

WPUSBAF	USB Jack, Waterproof Type A with 10" Wire Leads	15.00	14.10	13.20	12.30	11.40
WPUSBBF	USB Jack, Waterproof Type B with 10" Wire Leads	15.00	14.10	13.20	12.30	11.40
WPUSB-CVR	USB Cover, Waterproof	4.35	4.09	3.83	3.57	3.31

RoHS Low Smoke Zero Halogen USB Cable - Type A - B Connectors, 30 Microinches Gold

Low Smoke Zero Halogen cable reduces the amount of toxic and corrosive gases emitted during combustion. Typically used in poorly ventilated areas, Low Smoke Zero Halogen is becoming very popular where the protection of people and equipment from toxic and corrosive gases is critical.

CSUZAB-1M	LSZH USB Type A - B Cable, 1.0m	14.45	13.29	12.14	10.98	9.83
CSUZAB-2M	LSZH USB Type A - B Cable, 2.0m	17.45	16.05	14.66	13.26	11.87
CSUZAB-3M	LSZH USB Type A - B Cable, 3.0m	20.45	18.81	17.18	15.54	13.91
CSUZAB-5M	LSZH USB Type A - B Cable, 5.0m	26.45	24.33	22.22	20.10	17.99



Tip

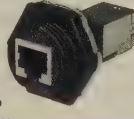
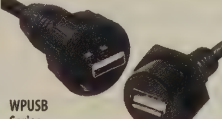
Waterproof Connectors - Where are they used and how are they rated?

Most off-the-shelf connector systems are designed for a fairly clean, dry environment. When they are used in a dusty or wet environment the user has to periodically replace or attempt to seal these connectors with epoxy, RTV or other material. These options can be quite expensive and time consuming. Fortunately, environmentally sealed connector systems are gaining in popularity and availability.

Where are they used?

Applications for these connectors are numerous and include automotive, communication, industrial and medical instruments. Dust and moisture are the two most common contaminants that enter through exposed data ports, damaging or destroying electronic equipment. Fortunately, specially sealed cables and connectors are available from L-com to protect these ports from dust and moisture.

L-com offers a number of protected interface types including:

D-subminiature for many serial and parallel devices	RJ45 for industrial Ethernet applications	USB for device interconnection and data transfer	Fiber Optic for industrial networks/harsh environments
 WPDB Series	 WJP Series	 WPUSB Series	 FODLC-IND Series

How are they rated?

The most popular system to rate the environmental protection of a particular connector is the Ingress Protection Rating (commonly known as IP Rating). The IP Rating is a number ranging from 1 to 3 digits.

- The first digit rates protection against ingress of solid objects
- The second digit rates protection against ingress of liquids
- The third digit rates protection against impact damage

Note: Many products, including L-com products, are not rated for impact. Larger value digits indicate greater protection against that substance/force.

Please see the chart below for details of the first two digit ratings:

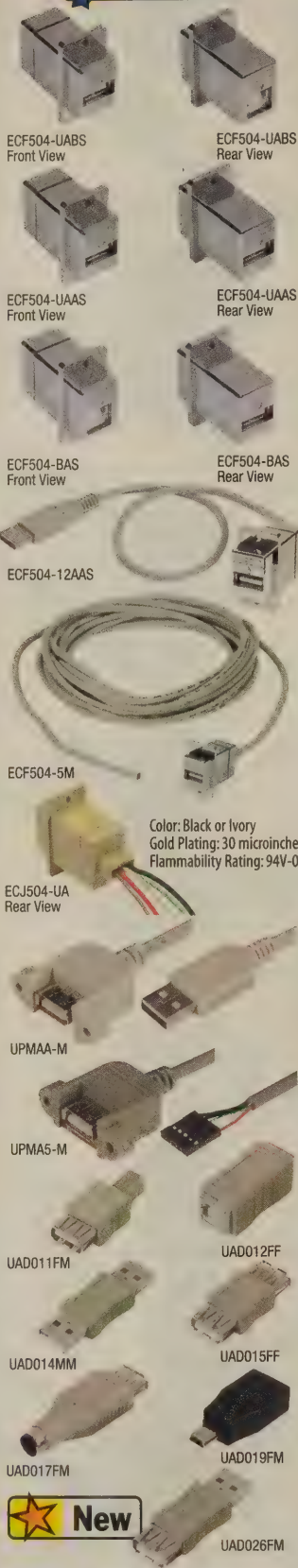
First number (Protection against solid objects)	Definition	Second number (Protection against liquids)	Definition
0	No protection	0	No protection
1	Protected against solid objects over 50mm (e.g. accidental touch by hands)	1	Protected against vertically falling drops of water
2	Protected against solid objects over 12mm (e.g. fingers)	2	Protected against direct sprays up to 15° from the vertical
3	Protected against solid objects over 2.5mm (e.g. tools and wires)	3	Protected against direct sprays up to 60° from the vertical
4	Protected against solid objects over 1 mm (e.g. tools, wires and small wires)	4	Protected against sprays from all directions - limited ingress permitted
5	Protected against dust - limited ingress (no harmful deposit)	5	Protected against low pressure jets of water from all directions - limited ingress permitted
6	Totally protected against dust	6	Protected against strong jets of water, e.g. for use on ship decks - limited ingress permitted
		7	Protected against the effects of temporary immersion between 15cm and 1m. Duration of test 30 minutes
		8	Protected against long periods of immersion under pressure

More waterproof products are available

See a complete list at L-com.com/Waterproof



Best Seller



Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
RoHS Panel Mounted USB Type Couplers, 30 Microinches Gold							
ECF504-UAB	USB Type A - Type B Coupler	Ivory	5.95	5.83	5.59	5.24	4.46
ECF504B-UAB	USB Type A - Type B Coupler	Black	5.95	5.83	5.59	5.24	4.46
ECF504-UABS	USB Type A - Type B Coupler, Shielded	Silver	6.95	6.81	6.53	6.12	5.21
ECF504-UAAS	USB Type A - Type A Coupler, Shielded	Silver	6.95	6.81	6.53	6.12	5.21
ECF504-BAS	USB Type B - Type A Coupler, Shielded	Silver	6.95	6.81	6.53	6.12	5.21
ECF440	Machine Screws, 4-40 x 5/16", Pkg/100		4.35	4.00	3.65	3.31	2.96

RoHS USB Type A Female Shielded Panel Mount Coupler to USB Type A Male Connector, 30 Microinches Gold

These options feature a bulkhead Type A jack to a molded Type A plug and USB 2.0 compliant cable. Assemblies are fully shielded and can be used in virtually any panel thickness. Recommended 4-40 mounting screws must be purchased separately.

ECF504-12AAS	USB Type A Coupler, Female Bulkhead / Male, 12 in	Silver	9.95	9.75	9.35	8.76	7.46
ECF504-24AAS	USB Type A Coupler, Female Bulkhead / Male, 24 in	Silver	10.35	10.14	9.73	9.11	7.76
ECF504-36AAS	USB Type A Coupler, Female Bulkhead / Male, 36 in	Silver	10.65	10.44	10.01	9.37	7.99
ECF504-72AAS	USB Type A Coupler, Female Bulkhead / Male, 72 in	Silver	11.55	11.32	10.86	10.16	8.66
ECF504-120AAS	USB Type A Coupler, Female Bulkhead / Male, 120 in	Silver	12.75	12.50	11.99	11.22	9.56
ECF440	Machine Screws, 4-40 x 5/16", Pkg/100		4.35	4.00	3.65	3.31	2.96

RoHS USB Type A Female Panel Mount Coupler to 5 Meter Un-terminated Pigtail Cable

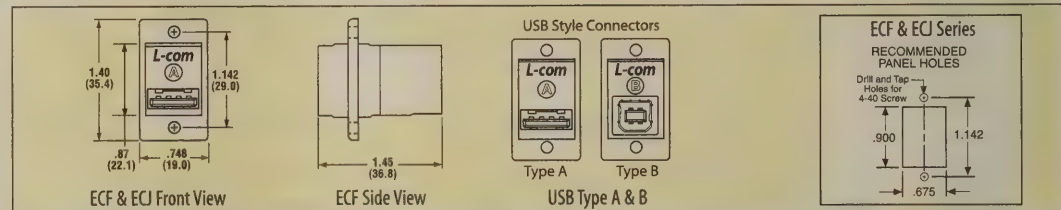
This addition to the popular USB panel mount adapter line allows users the flexibility to configure their own assembly. It features a shielded bulkhead Type A Jack with 5 meters of un-terminated USB 2.0 compliant cable. Users can cut the cable to the desired length and hard wire or terminate it with their connector of choice. (See page 103 for compatible USB Type A and B connectors). L-com can custom terminate these cable ends with modest minimum requirements. Recommended 4-40 mounting screws must be purchased separately.

ECF504-5M	USB Type A Female Panel Mount Coupler / 5.0m Cable		11.95	11.71	11.23	10.52	8.96
ECF440	Machine Screws, 4-40 x 5/16", Pkg/100		4.35	4.00	3.65	3.31	2.96

RoHS USB Type A and B Panel Couplers with 10" Wire Leads, 30 Microinches Gold

Similar to our ECF504 USB coupler except with wire leads in the rear to connect to equipment. Choose from USB Type A or B jacks in Black or Ivory. Wires are 20 AWG (2 power) and 24 AWG (2 signal) stranded wires with an additional drain to shield. Recommended 4-40 mounting screws must be purchased separately.

ECJ504-UA	USB Type A Jack, 10" Leads	Ivory	5.25	5.15	4.93	4.62	3.94
ECJ504-UB	USB Type B Jack, 10" Leads	Ivory	5.25	5.15	4.93	4.62	3.94
ECJ504B-UA	USB Type A Jack, 10" Leads	Black	5.25	5.15	4.93	4.62	3.94
ECJ504B-UB	USB Type B Jack, 10" Leads	Black	5.25	5.15	4.93	4.62	3.94
ECF440	Machine Screws, 4-40 x 5/16", Pkg/100		4.35	4.00	3.65	3.31	2.96



RoHS USB Type A Female Panel Mount to Type A Male Cable Assembly

These USB 2.0 panel mount cables are perfect for use inside a box or enclosure. The USB Type A female side is flange-style panel mountable with an alternative, smaller body compared to the popular ECF504 series. This makes it a nice fit in applications with limited space. The molded panel mountable USB construction is rugged and robust, using 20 AWG power conductors and a 28 AWG twisted pair all under a double shield for maximum EMI resistance. Quantity and custom length pricing available, just give us a call!

UPMAA-05M	USB Cable Assembly, Type A Female Panel Mount / Type A Male, 0.5m	Lt. Gray	8.45	7.77	7.10	6.42	5.75
UPMAA-2M	USB Cable Assembly, Type A Female Panel Mount / Type A Male, 2.0m	Lt. Gray	9.95	9.15	8.36	7.56	6.77
UPMAA-5M	USB Cable Assembly, Type A Female Panel Mount / Type A Male, 5.0m	Lt. Gray	12.95	11.91	10.88	9.84	8.81

RoHS USB Type A Female Panel Mount to 5 Pin Female 0.100"/2.54mm Header Connector

Designed to make "board-to-box" USB connections a cinch, this light, flexible USB cable uses a pre-installed 5 pin female housing to a molded flange-mount USB type A female. Look no further for your USB panel mount solution! The cable is double shielded for maximum EMI resistance and the power conductors are 26 AWG to make the overall cable more flexible. Quantity and custom length pricing available, just give us a call!

UPMA5-03M	USB Cable Assembly, Type A Female Panel Mount / 5 Pin Female, 0.3m	Lt. Gray	7.19	6.61	6.04	5.46	4.89
UPMA5-1M	USB Cable Assembly, Type A Female Panel Mount / 5 Pin Female, 1.0m	Lt. Gray	7.75	7.13	6.51	5.89	5.27
UPMA5-2M	USB Cable Assembly, Type A Female Panel Mount / 5 Pin Female, 2.0m	Lt. Gray	8.55	7.87	7.18	6.50	5.81

RoHS USB Adapters - Molded and Fully Shielded

These adapters provide an economical way for users to solve gender and connector type mismatches among standard USB connectors. They feature a durable fully molded design with internal shielding to protect signals from EMI/RFI interference. UAD026MF and UAD027MF socket savers extend the life of expensive cables and ports by taking the abuse of frequently mated USB connectors.

UAD010MF	USB Adapter, Type A Male / Type B Female	Lt. Gray	4.25	4.17	3.99	3.74	3.19
UAD011FM	USB Adapter, Type A Female / Type B Male	Lt. Gray	4.25	4.17	3.99	3.74	3.19
UAD012FF	USB Adapter, Type B Female / Type B Female	Lt. Gray	4.25	4.17	3.99	3.74	3.19
UAD013FF	USB Adapter, Type A Female / Type B Female	Lt. Gray	4.25	4.17	3.99	3.74	3.19
UAD014MM	USB Adapter, Type A Male / Type A Male	Lt. Gray	4.25	4.17	3.99	3.74	3.19
UAD015FF	USB Adapter, Type A Female / Type A Female	Lt. Gray	4.25	4.17	3.99	3.74	3.19
UAD016MM	USB Adapter, Type B Male / Type B Male	Lt. Gray	4.25	4.17	3.99	3.74	3.19
UAD017FM	USB Adapter, Type A Female / Mini DIN 6 Male	Lt. Gray	4.25	4.17	3.99	3.74	3.19
UAD018MF	USB Adapter, Type A Male / Mini DIN 6 Female	Lt. Gray	4.25	4.17	3.99	3.74	3.19
UAD019FM	USB Adapter, Type A Female / Mini-B5 Male	Black	4.25	4.17	3.99	3.74	3.19
UAD026MF	USB Adapter, Type A Male / Female	Lt. Gray	4.25	4.17	3.99	3.74	3.19
UAD027MF	USB Adapter, Type B Male / Female	Lt. Gray	4.25	4.17	3.99	3.74	3.19



Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
RoHS USB Revision 2.0 Compliant Bulk Cable							
This cable will support the 480 Mbps transmission rate of a USB 2.0 network and is also backward compatible with older, slower USB networks. USB bulk cable features two 20 AWG power conductors plus one 28 AWG twisted pair for the data lines. A flexible PVC jacket covers the braid, foil and drain wire shield. Choose from 100, 500 or 1000 foot spools. Jacket color is Light Gray.							
CSUSB-100	USB Revision 2.0 Compliant Bulk Cable, 100 ft Spool	Lt. Gray	49.00	46.06	43.12	40.18	CALL
CSUSB-500	USB Revision 2.0 Compliant Bulk Cable, 500 ft Spool	Lt. Gray	225.00	211.50	198.00	184.50	CALL
CSUSB-1000	USB Revision 2.0 Compliant Bulk Cable, 1000 ft Spool	Lt. Gray	395.00	371.30	347.60	323.90	CALL

RoHS USB Connectors and Hoods, Type A and B

USB connectors and hoods are now available for custom lengths and applications. The USB connector system is becoming the connector of choice for many applications due to its low material and labor costs. Connectors feature gold plated solder contacts, nickel-plated steel shells and a UL94V-0 rated housing. Hoods are Light Gray ABS resin and are also UL94V-0 rated.

CNUSB-A	USB Type A Connector		1.39	1.36	1.31	1.22	1.04
CNUSB-B	USB Type B Connector		1.39	1.36	1.31	1.22	1.04
HOODUSB-A	USB Type A Hood	Lt. Gray	0.58	0.57	0.55	0.51	0.43
HOODUSB-B	USB Type B Hood	Lt. Gray	0.58	0.57	0.55	0.51	0.43

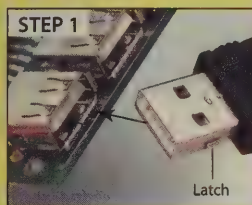
RoHS USB Coil Cord - Type A Latching Connector to Type B Connector, 10.5 Feet Extended

This unique cable assembly features a polyurethane jacketed coil cord plus a latching Type A USB connector providing improved mating retention with any USB Type A jack. The latches lock into the channels on each side of a USB jack when fully mated. Retracted length is approximately 2.5 feet expanding to 10.5 feet. Fully shielded and USB 2.0 compliant, this cable contains two 28 AWG power conductors plus one 28 AWG twisted pair for data lines. Color is Black.

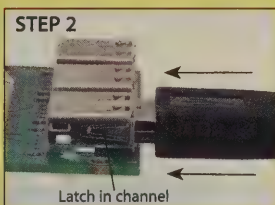
COILUAB	USB Coil Cord, Latching Type A Male / Type B Male	Black	16.95	16.27	15.59	14.41	12.71
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Tip

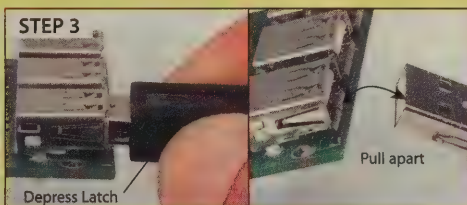
How does the latching USB connector work?



Insert the latching USB connector into the USB jack.



The latches on each side of the connector lock into the channel cut-outs of any USB jack. Note: It may be necessary to rock the latching connector slightly to set the latches into the channels.



To remove the latching USB connector, simply depress the release mechanisms on the sides of the backshell and pull apart.

RoHS Mountable USB Extension Cable - Type A Connectors, 30 Microinches Gold

Tired of trying to connect your USB cable to the hard to access port on the back of your PC? Try this convenient cable and make this problem go away! Featuring a USB Type A plug for the PC connection and a unique USB Type A jack, the user can mount this jack to any surface with either screws or double sided foam tape (both are provided). Fully shielded and USB 2.0 compliant, this cable contains two 20 AWG power conductors plus one 28 AWG twisted pair for the data lines and rugged molded backshells. Cable length is 2 meters (6.6 feet). Color is Light Gray.

CSMUAXMT-2M	Premium USB Type A Male / Female Mounting Extension Cable, 2.0m		10.50	9.66	8.82	7.98	7.14
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RoHS USB Type A and B Connector Covers - Protect Unused Ports, Pkg/10

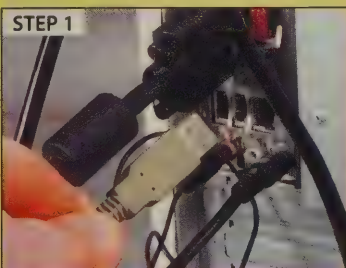
These covers are perfect for protecting unused female ports in our panel mount couplers or any expensive equipment from physical damage, dirt and dust. Made from soft ABS, these covers attach easily and stay in place with a snug friction fit. Color: Black.

CAPUSB-A	USB Protective Cover for Type A Jacks, Pkg/10	Black	6.50	5.98	5.46	4.94	4.42
CAPUSB-B	USB Protective Cover for Type B Jacks, Pkg/10	Black	6.50	5.98	5.46	4.94	4.42

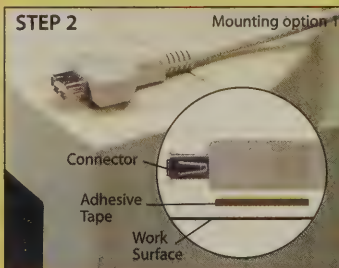

Tip

Advantage of using the USB mountable extension cable assembly

Connecting a cable to the hard to access USB port on your PC can be difficult.



Simply connect the mountable extension cable once to the USB port on the back of your computer.



This cable can be mounted to your PC monitor or any work surface. Choose your preferred mounting option using either the double sided adhesive tape or screws provided. Your USB port is now easy to access.

Suggested Uses:

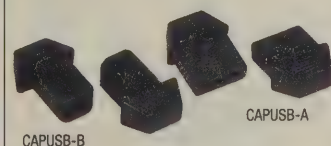
- Digital Cameras
- MP3 Players
- External Hard Drives
- Test Environments



COILUAB



CSMUAXMT-2M



CAPUSB-B

CAPUSB-A



For more useful information go to...
www.L-com.com/Resources

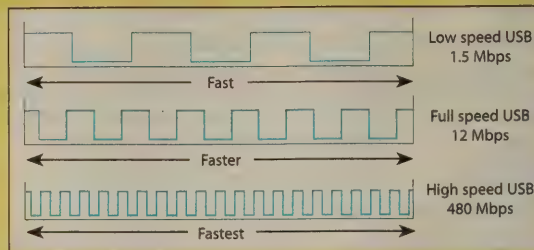
L-com Global Connectivity



Tip USB supports three different speeds:

- **Low-speed** devices operate at 1.5 Mbps (megabits per second). Examples include keyboards, mice and serial interfaces such as RS232. USB version 1.0 and 1.1 compliant devices provide enough bandwidth for these applications.
- **Full-speed** devices operate at 12 Mbps. Examples include web-cams and printers. Typically, USB versions 1.0 and 1.1 will provide enough bandwidth to meet these requirements.
- **High-speed** devices operate at 480 Mbps. These devices include external CD-ROM, DVD drives and USB to Ethernet applications. USB version 2.0 is the preferred version for these types of applications.

USB 2.0, or high speed USB, is backward compatible with USB versions 1.0 and 1.1. USB 2.0 supports low-bandwidth devices such as keyboards and mice, as well as high-bandwidth devices including webcams, scanners, printers and storage devices.



Item #	Description	1-9	10-24	25-99	100-249	250-499
Zonet USB 1.1 to RS232 Serial Converter						
The ZN-ZUC3100 is used to connect RS232 Serial peripherals such as GPS devices and PDA's to the USB port of your PC or Laptop. This easy to install, Plug and Play converter provides seamless translation of RS232 to USB. Works with Windows 98SE/ME/2000/XP. Includes a 1-year manufacturer's warranty.						
ZN-ZUC3100	Zonet USB 1.1 to RS232 Serial Converter	19.90	19.50	19.10	18.71	18.31

Zonet USB 1.1 to Parallel 36 Centronics Converter

The ZN-ZUC3120 is used to connect a 36 Centronics Parallel device such as a printer to the USB port of you PC or Laptop computer. Plug and Play installation insures fast and easy installation. The ZN-ZUC3120 is Bus-Powered so no external power supplies are required. Supports Windows 98SE/ME/2000/XP operating systems and includes a 1-year manufacturer's warranty.

ZN-ZUC3120	Zonet USB 1.1 to Parallel 36 Centronics Converter	21.00	20.58	20.16	19.74	19.32
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RoHS Planet USB to PS/2 Keyboard and Mouse Converter

Planet's USB to PS/2 Converter allows users to connect existing PS/2 style keyboards and mice to USB enabled computers. The Planet adapter is bus powered and compatible with Windows 98/98SE/NT/ME/2000/XP, Netware, Unix /Linux, Mac OS 8.6 or greater and Sun Microsystems. Converter includes a one year manufacturer's warranty.

PTUSB-PS2	Planet USB to PS/2 Keyboard and Mouse Converter	14.00	13.72	13.44	13.16	12.88
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Item #	Description	List Price
USB to RS232 Converters 1, 2 and 4 Port		

These easy to install converters allow you to connect a USB port on a PC or laptop to legacy RS232 devices such as PDA's, GPS systems etc. These converters feature DB9 male connectors for the RS232 connection and a USB type A male connector for the PC or laptop connection. Each converter ships with a driver/installation CD.

UMC-201	USB to RS232 Converter Cable, 1 meter	29.95
UMC-102	USB to RS232 Converter, 2 RS232 DB9 Male	39.95
UMC-104	USB to RS232 Converter, 4 RS232 DB9 Male	59.95

USB to GPIB Converter Cable

The USB-488 is a USB to GPIB Controller Module that converts any PC with a USB interface into a full-function, IEEE 488.2 Bus Controller. The unit performs all of the basic IEEE-488.1 functions such as talker, listener and system controller. Its IEEE-488.2 controller routines make it fully compliant with the IEEE 488.2 specification. The USB-488 module is a Plug and Play USB peripheral that supports Microsoft Windows 98SE/ME/2000/XP operating systems. The driver includes National Instruments' style 488.1 'ib' and 488.2 command Sets. Additionally the driver provides support for Visual Basic and C/C++ language programs and is compatible with National Instruments' VISA and LabView.

USB-488	USB to GPIB Converter Cable	495.00
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Planet USB 2.0 4-Port External Hub

The UH-430 offers four Type-A ports which can handle high-speed, full speed, and low-speed USB data rates. The UH-430 can connect with 127 USB 1.1 or 2.0 devices with easy to use plug and play function. This handy, compact USB hub is perfect for attaching USB peripherals to a PC or laptop.

UH-430	Planet USB 2.0 4-Port External Hub	11.79
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USB to RS232/422/485 Converter

The CVTR-I-7561 is a rugged yet cost-effective module that is used for transferring serial data over USB. This converter allows you to connect your serial devices to systems using a USB interface such as a PC. The CVTR-I-7561 contains a Self Tuner chip, which auto-tunes the baud rate and data format to the RS-485 network. CVTR-I-7561 module derives its power from the USB port and does not require an external power supply. This versatile converter also features a high-speed 115.2 Kb/s transmission rate, and supports a multitude of O.S. independent RS-232/422/485 Ports. Power supply sold separately.

CVTR-I-7561	USB to RS232/422/485 Converter	125.00
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RoHS USB 2.0 Active Extension Cable Type A Male / Female 5 Meter

The TL-U026-016 is a 16-ft. USB Certified 2.0 active extension cable that is bus powered and can be used to increase the length of a USB device without the worry of signal loss and potential performance problems. USB limits a cable's length to 16 feet. Any length over 16 feet requires the use of an active cable such as this one. This cable has a signal booster built in. The overall cable length can be extended up to 80 feet by daisy chaining up to 5 of these active cables. The cable must be plugged directly into a USB port, either on the PC or a hub.

TL-U026-016	USB 2.0 Active Extension Cable Type A Male / Female, 5.0m	21.49
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RoHS USB Extender - Extends USB Signals to 50 Meters

Extend USB signals up to 50 meters using standard Cat5/5e/6 cable! This competitively priced USB extender features a built in buffer and actively regenerates USB signals to preserve data integrity. These extenders are great for use with security and surveillance video, PC digital audio systems and other devices with USB interface that are located in far away locations.

W01-EXT-USB-50	USB Extender	42.00
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Item #	Description	1-9	10-24	25-99	100-249	250-499
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RoHS Icron USB 2.0 Ranger 140

The Icron USB 2.0 Ranger 140 extender represents a significant milestone in the USB market, supporting USB 2.0 peripheral devices at speeds up to 480 Mbps over a distance of 50 meters/165 feet. The USB 2.0 Ranger 140 is a single port, Class A device, which connects a host computer and peripherals with standard Category 5 UTP cable. The Ranger 140 supports low-speed (USB 1.1), full-speed (USB 1.1) and high-speed (USB 2.0) devices. This product ships with a local and remote unit and 5 VDC power adapters.

ICR140	Icron USB 2.0 Ranger 140 (NA 110V Power)	569.00	557.62	546.24	534.86	523.48
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RoHS Icron USB 2.0 Ranger 440

The USB 2.0 Ranger 440 extenders also represent a significant milestone in the USB market, supporting USB 2.0 peripheral devices at speeds up to 480 Mbps over a distance of 50 meters/165 feet. The USB 2.0 Ranger 440 is a four port, Class A device, that connects a host computer and peripherals with standard Category 5 UTP cable. The Ranger 440 supports low-speed (USB 1.1), full-speed (USB 1.1) and high-speed (USB 2.0) devices. The Ranger 440 ships with a local and remote unit and a 5 VDC power adapter. Order online today!

ICR440	Icron USB 2.0 Ranger 440 (110V-120V Power)	621.75	609.31	596.88	584.44	572.01
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RoHS Icron USB 2.0 Ranger 442 and 444

These USB 2.0 Ranger 442 and 444 extenders can support USB 2.0 peripheral devices up to 10km! These unique USB 2.0 four port fiber extenders support low speed (USB 1.1), full speed (USB 1.1) and hi-speed (USB 2.0) devices. The 442 supports either 62.5/125 or 50/125 Multimode cable (up to 500 meters) and the 444 utilizes 9/125 Single mode cabling (up to 10km). Both the Ranger 442 and 444 are shipped with a local and remote unit and a 5 VDC power adapter. Order online today!

ICR442	Icron USB 2.0 Fiber Ranger 442 Multimode (110V-120V Power)	857.00	839.86	822.72	805.58	788.44
ICR444	Icron USB 2.0 Fiber Ranger 444 Singlemode (110V-120V Power)	1031.50	1010.87	990.24	969.61	948.98

RoHS Icron 4 Port Fiber USB Ranger

The USB Ranger 422 extends the benefits of Extreme USB technology to greater distances! The fiber optic transmission system built into the USB Ranger 422 enables you to place up to four USB devices 500 meters away from their host. Since the USB Ranger appears to the operating system to be a generic USB hub, it is compatible with all operating systems that support hubs including Windows 98, ME, 2000, XP, Apple, Solaris, Linux and more. No additional software is required! All USB Ranger products are composed of two separate units: the Local Extender (LEX) and the Remote Extender (REX) shipped as a set. Conventional USB cables are used to connect the LEX unit to the host computer and to connect one or more remote USB devices to the REX unit. The LEX and REX units are interconnected with up to 500 meters of 2-strand multimode fiber (not included).

ICR422	Icron 4 Port Fiber USB Ranger Extender 110V Power Supply (Set)	589.00	577.22	565.44	553.66	541.88
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RoHS Icron USB Ranger 110/410

The USB Ranger product line provides all the flexibility of extended range USB in a ready-to-use package. The USB Ranger 110/410 is fully compliant with the USB 1.1 Specification and supports remote device powering, and Plug and Play operation. The technology behind the product, ExtremeUSB, requires no additional software for either the computer or the target devices. The Ranger products are composed of two separate units: the Local Extender (LEX) and Remote Extender (REX) sold as a set. Conventional USB cables are used to connect the LEX unit to the host computer and to connect one or more remote USB devices to the REX unit. Category 5 UTP cabling is used to connect the LEX and REX units over a distance of up to 100 meters. The USB Ranger 110/410 products offer the flexibility of locating the power at either the LEX or the REX. Depending on where the power adapter is located, both the USB Ranger 110 and 410 can support both high-power and low-power USB devices.

ICR110	Icron 1 Port USB Extender 110V Power Supply (Set)	299.00	293.02	287.04	281.06	275.08
ICR410	Icron 4 Port USB Extender 110V Power Supply (Set)	345.00	338.10	331.20	324.30	317.40

RoHS Icron USB Rover 200

The Icron USB Rover 200 is an active fiber optic USB 1.1 extension cable that supports any full-speed (12 Mbps) or low-speed (1.5 Mbps) USB device. Additionally, the Rover 200 provides electrical immunity and isolation between the host and peripheral device. The Rover 200 is available in lengths up to 40 meters. System includes local and remote units, integrated cable, international power adapter and a user guide. Compatible with PC, MAC and SUN platforms.

ICR-USB200NA-10	Icron USB Rover 200 10 Meter NA Pwr	215.00	210.70	206.40	202.10	197.80
ICR-USB200NA-20	Icron USB Rover 200 20 Meter NA Pwr	249.00	244.02	239.04	234.06	229.08
ICR-USB200NA-30	Icron USB Rover 200 30 Meter NA Pwr	299.00	293.02	287.04	281.06	275.08
ICR-USB200NA-40	Icron USB Rover 200 40 Meter NA Pwr	369.00	361.62	354.24	346.86	339.48

RoHS Icron USB Rover 1650/2650

The Icron 1650 and 2650 Rover products extend the range of USB devices up to 50 meters over UTP cable. These USB extenders support either one USB port (1650) or two USB ports (2650). Both the 1650 and 2650 do not require an external power supply since they transmit power and data over the same Category 5 UTP cable. These extenders are ideal for use with USB 1.1 keyboards and mice. The 1650 and 2650 provide support for any full-speed (12 Mbps) or low-speed (1.5 Mbps) USB device. Set includes both the local and remote units.

ICR1650	Icron 1 Port Full-Speed 50 Meter USB Extender (Set)	105.00	102.90	100.80	98.70	96.60
ICR2650	Icron 2 Port Full-Speed 50 Meter USB Extender (Set)	119.00	116.62	114.24	111.86	109.48

Icron USB 2.0 Ranger 2101/2104

Icron's USB 2.0 Ranger® 2101 and 2104 extenders represent a significant milestone in the USB market supporting USB 2.0 peripheral devices at speeds up to 480 Mbps over a distance of 100m/330ft, doubling the extension distance of 50m/165ft of the previous generation. Powered by patented ExtremeUSB technology, the USB 2.0 Ranger 2101 supports a single device port; the USB 2.0 Ranger 2104 supports four device ports via an integrated hub. These USB extenders require AC power (included) at the remote REX end. Additionally an optional LEX power supply (sold separately) is available for USB ports that cannot provide the required 500mA current.

ICR2101	Icron 1 Port 2.0 Ranger Cat. 5 USB Extender	319.00	312.62	306.24	299.86	293.48
ICR2104	Icron 4 Port 2.0 Ranger Cat. 5 USB Extender	347.00	340.06	333.12	326.18	319.24



Same day shipping

Orders placed before 4:00 EST
ship the same day.





Firewire / DIN / SCSI / SATA Tutorial

■ What is Firewire?

Firewire is a high speed communication interconnect standard defined by IEEE-1394. It was originally developed to connect PCs to other PCs or to peripherals such as digital cameras, camcorders, scanners, etc. An attractive advantage is the devices are hot pluggable (live connection/disconnection without data loss or interruption).

■ What is SCSI?

Small Computer System Interface or SCSI is a standard and interface for transferring data between PCs and peripherals such as disk drives. Some SCSI interfaces are also found on peripherals such as scanners and CD drives.

■ What is SATA?

SATA or Serial ATA is a storage interface

used to connect laptop and desktop computers or external mass storage devices such as a hard disk drives or optical drives. SATA can support data transfer rates as high as 3.0 Gbps per device (depending on hardware used).

■ What is eSATA?

eSATA or external SATA, was developed in 2004 to provide external high speed connectivity to external storage devices. eSATA technology supports hot plugging and a maximum cable length of 2 meters.

■ What is Ultra ATA/133?

Ultra ATA is a high speed interface using parallel transmission to connect not only mass storage devices but other peripherals such as DVD-ROM drives, CD-ROM drives tape drives, and floppy drives.

■ What is DIN and Mini DIN?

DIN stands for Deutsches Institut für Normung which is the German standards organization that developed this interface. DIN connectors are available in many configurations from 3 to 9 positions. Also there are several different versions of the 5 pin connector where the angle of the arc swept between the first and last pin can be 180°, 240° or 270°. The most common uses for DIN connectors are analog audio, AT keyboard and mouse connections and MIDI applications.

Mini DIN connectors were also developed by Deutsches Institut für Normung. These connectors are similar to the DIN series but feature a smaller diameter connector and are available in several different styles (pin counts and pin orientation). Some popular applications for Mini DIN connectors include S-Video and PS/2 Keyboard and mouse interconnects.



For more useful information go to....

www.L-com.com/Resources

Common Application Matrix

• SCSI, SATA, eSATA, Ultra ATA/133



Hard Disk Drive

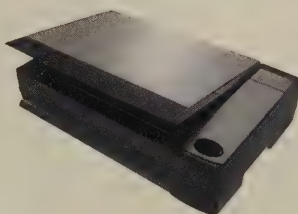


External Storage

• Firewire



Camera

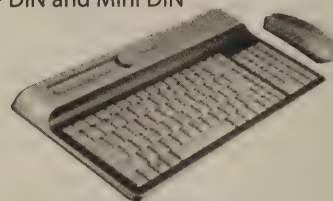


Scanner

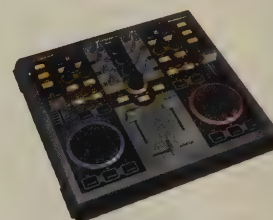


Camcorder

• DIN and Mini DIN



Keyboard and Mouse



MIDI



S-Video



Item #	Description	1-9	10-24	25-99	100-249	250-499
✓RoHS External Serial ATA Cable Assemblies - Fully Shielded, Protect Against EMI/RFI						
L-com's CAESA series of external Serial ATA cables provide fast data transfer speeds for external storage devices. SATA is now available "outside the box". These fully shielded cables provide extra protection from EMI/RFI and support speeds up to three Gigabits per second.						
CAESA-05M	External Serial ATA Cable Assembly, 0.5m	6.95	6.53	6.12	5.70	5.28
CAESA-1M	External Serial ATA Cable Assembly, 1.0m	7.95	7.47	7.00	6.52	6.04
CAESA-2M	External Serial ATA Cable Assembly, 2.0m	9.95	9.35	8.76	8.16	7.56

✓RoHS External Serial ATA to Latching SATA II Cable Assemblies, Fully Shielded

L-com's CAESA2 series of External SATA to SATA II latching cable assemblies connect eSATA external drives/enclosures to SATA II enabled systems. These robust assemblies feature fully shielded cables that provide extra protection from EMI/RFI and support speeds up to three Gigabits per second. The SATA II latching connector ensures a secure connection.

CAESA2-05M	eSATA to SATA II Latching Cable Assembly, 0.5m	6.95	6.53	6.12	5.70	5.28
CAESA2-1M	eSATA to SATA II Latching Cable Assembly, 1.0m	7.95	7.47	7.00	6.52	6.04
CAESA2-2M	eSATA to SATA II Latching Cable Assembly, 2.0m	9.95	9.35	8.76	8.16	7.56

✓RoHS Serial ATA (SATA) Cable Assemblies with Latching Connectors- Straight and Right Angle Connectors

L-com's latching Serial ATA cable assemblies provide a secure connection every time. These SATA assemblies feature two shielded 26 AWG pairs in a PVC jacket, gold plated contacts and two straight polarized seven position connectors. Both straight to straight and straight to right angle versions are offered. Custom lengths are available with modest minimum requirements. Call us today with your custom SATA requirements.

CASATAL-8	Latching Serial ATA Cable, Straight / Straight, 8.0 inches	3.75	3.45	3.15	2.85	2.55
CASATAL-12	Latching Serial ATA Cable, Straight / Straight, 12.0 inches	3.95	3.63	3.32	3.00	2.69
CASATAL-16	Latching Serial ATA Cable, Straight / Straight, 16.0 inches	4.15	3.82	3.49	3.15	2.82
CASATAL-18	Latching Serial ATA Cable, Straight / Straight, 18.0 inches	4.25	3.91	3.57	3.23	2.89
CASATAL-24	Latching Serial ATA Cable, Straight / Straight, 24.0 inches	4.60	4.23	3.86	3.50	3.13
CASATAL-36	Latching Serial ATA Cable, Straight / Straight, 36.0 inches	5.25	4.83	4.41	3.99	3.57
CASATARL-8	Latching Serial ATA Cable, Straight / Right Angle, 8.0 inches	4.25	3.91	3.57	3.23	2.89
CASATARL-12	Latching Serial ATA Cable, Straight / Right Angle, 12.0 inches	4.45	4.09	3.74	3.38	3.03
CASATARL-16	Latching Serial ATA Cable, Straight / Right Angle, 16.0 inches	4.65	4.28	3.91	3.53	3.16
CASATARL-18	Latching Serial ATA Cable, Straight / Right Angle, 18.0 inches	4.75	4.37	3.99	3.61	3.23
CASATARL-24	Latching Serial ATA Cable, Straight / Right Angle, 24.0 inches	5.10	4.69	4.28	3.88	3.47
CASATARL-36	Latching Serial ATA Cable, Straight / Right Angle, 36.0 inches	5.75	5.29	4.83	4.37	3.91

✓RoHS Serial ATA Cable Assemblies - Straight to Straight and Straight to Right Angle Connectors

Serial ATA cables are replacing wide Parallel ATA ribbon cables in many applications. The Serial ATA cable is smaller, more flexible and easier to route inside a chassis. With the trend toward miniaturization, these characteristics are beneficial in many product designs. The cables feature two shielded 26 AWG pairs in a PVC jacket, gold plated contacts and polarized seven position connectors. Available in straight to straight and straight to right angle connector orientations in lengths of 0.5 and 1 meter.

CASATA-05M	Serial ATA Cable, Straight / Straight, 0.5m	4.25	3.83	3.40	2.97	2.55
CASATA-1M	Serial ATA Cable, Straight / Straight, 1.0m	5.25	4.73	4.20	3.68	3.15
CASATAR-05M	Serial ATA Cable, Straight / Right Angle, 0.5m	4.75	4.28	3.80	3.33	2.85
CASATAR-1M	Serial ATA Cable, Straight / Right Angle, 1.0m	5.75	5.18	4.60	4.02	3.45

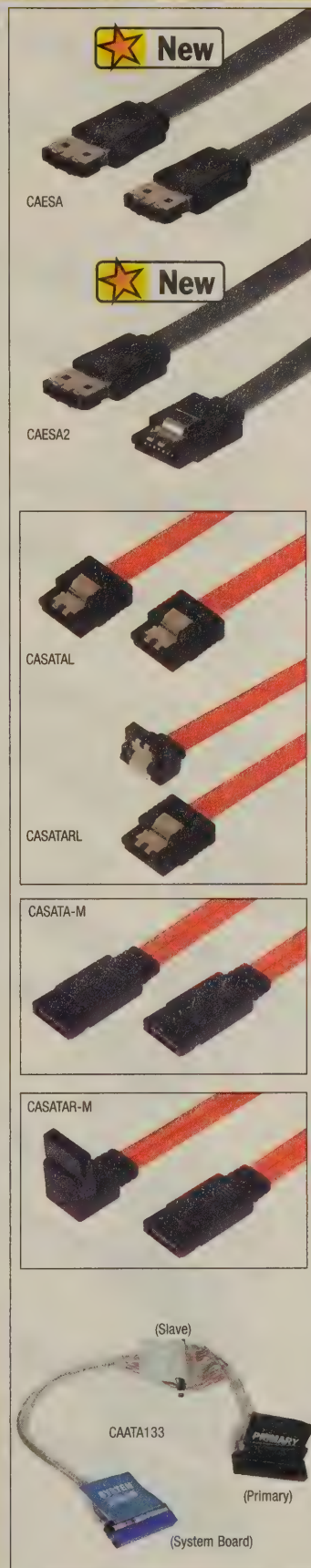
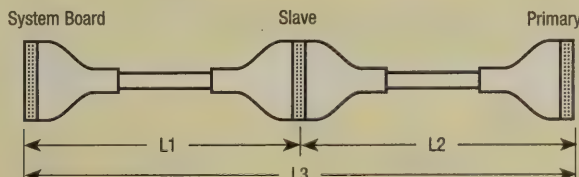
✓RoHS Ultra ATA 133 Cables - 80 Cond. Round Shielded Cable with Three 40 Signal/40 Ground IDE Connectors

L-com stocks popular Ultra ATA 133 cable assemblies. When compared to traditional flat ATA cables, these assemblies reduce heat and increase airflow in your case due to their compact round cable design. Features clear cable jacket and boots, 40 twisted pair, 30 AWG double shielded cable and easy to use pull tabs on each connector. Connectors are IDE 40 signal plus 40 ground, color coded and polarized for easy plug in. Also, these cables are compatible with ATA 100, 66, 33 drives and many CD-ROMS, zip drives and tape drives. See diagram below for connector spacing.

CAATA133-318	Ultra ATA133 Cable, 3 Connector, 18"	7.95	7.31	6.68	6.04	5.41
CAATA133-324	Ultra ATA133 Cable, 3 Connector, 24"	8.95	8.23	7.52	6.80	6.09
CAATA133-336	Ultra ATA133 Cable, 3 Connector, 36"	9.95	9.15	8.36	7.56	6.77

Ultra ATA 133 Cable Spacing

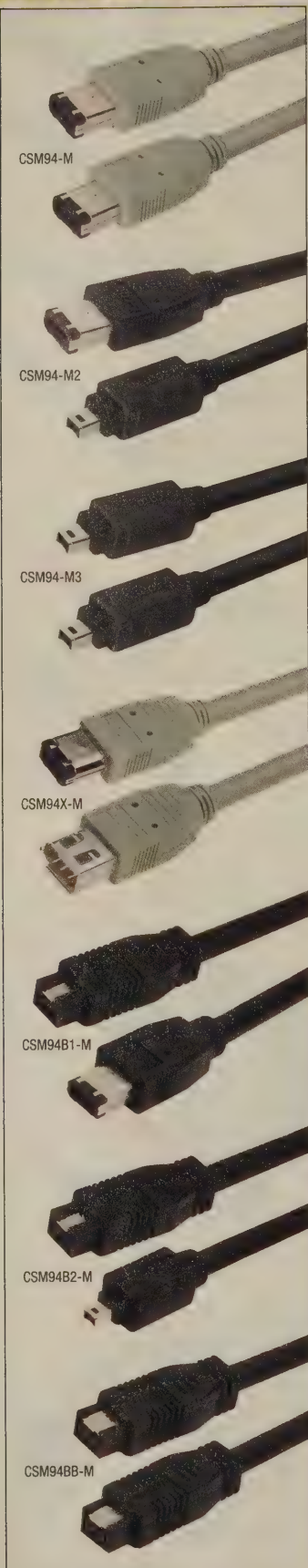
Part No.	Length (inches)		
	L1	L2	L3
CAATA133-318	12	7	19
CAATA133-324	16	8	24
CAATA133-336	23.5	12	35.5



Free technical support

Call toll free at 1-800-343-1455

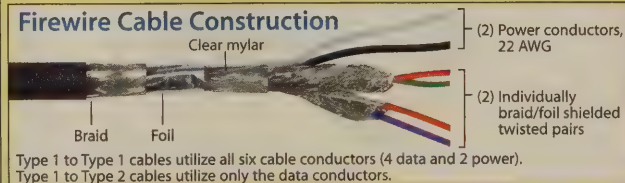
if you have questions about your application.



Item #	Description	1-9	10-24	25-99	100-249	250-499
IEEE-1394 Firewire Cable Assemblies - Transmission Rates to 400 Mbps						
Highest quality Firewire cables allow for transfer rates up to 400 Mbps and meet the IEEE-1394 specification. These cables allow for simple Plug and Play connections for devices such as printers, scanners, digital cameras and other firewire peripherals. They can also be used to link two computers together for file sharing. Twisted pair data lines help reduce crosstalk while 22 AWG power conductors enable maximum power transfer from host to peripheral.						
✓RoHS IEEE-1394 Firewire Cable, Type 1 - Type 1, PVC Jacket, 30 Microinches Gold						
CSM94-05M	IEEE-1394 Firewire Cable, Type 1 - Type 1, 0.5m	10.95	9.86	8.76	7.66	6.57
CSM94-1M	IEEE-1394 Firewire Cable, Type 1 - Type 1, 1.0m	12.45	11.21	9.96	8.71	7.47
CSM94-2M	IEEE-1394 Firewire Cable, Type 1 - Type 1, 2.0m	15.45	13.91	12.36	10.82	9.27
CSM94-3M	IEEE-1394 Firewire Cable, Type 1 - Type 1, 3.0m	18.45	16.61	14.76	12.92	11.07
CSM94-5M	IEEE-1394 Firewire Cable, Type 1 - Type 1, 5.0m	24.45	22.01	19.56	17.11	14.67
✓RoHS IEEE-1394 Firewire Cable, Type 1 - Type 2, PVC Jacket, 30 Microinches Gold						
CSM94-05M2	IEEE-1394 Firewire Cable, Type 1 - Type 2, 0.5m	10.95	9.86	8.76	7.66	6.57
CSM94-1M2	IEEE-1394 Firewire Cable, Type 1 - Type 2, 1.0m	12.45	11.21	9.96	8.71	7.47
CSM94-2M2	IEEE-1394 Firewire Cable, Type 1 - Type 2, 2.0m	15.45	13.91	12.36	10.82	9.27
CSM94-3M2	IEEE-1394 Firewire Cable, Type 1 - Type 2, 3.0m	18.45	16.61	14.76	12.92	11.07
CSM94-5M2	IEEE-1394 Firewire Cable, Type 1 - Type 2, 5.0m	24.45	22.01	19.56	17.11	14.67
✓RoHS IEEE-1394 Firewire Cable, Type 2 - Type 2, PVC Jacket, 30 Microinches Gold						
CSM94-05M3	IEEE-1394 Firewire Cable, Type 2 - Type 2, 0.5m	10.95	9.86	8.76	7.66	6.57
CSM94-1M3	IEEE-1394 Firewire Cable, Type 2 - Type 2, 1.0m	11.95	10.76	9.56	8.36	7.17
CSM94-2M3	IEEE-1394 Firewire Cable, Type 2 - Type 2, 2.0m	13.95	12.56	11.16	9.76	8.37
CSM94-3M3	IEEE-1394 Firewire Cable, Type 2 - Type 2, 3.0m	15.95	14.36	12.76	11.17	9.57
CSM94-5M3	IEEE-1394 Firewire Cable, Type 2 - Type 2, 5.0m	19.95	17.95	15.96	13.96	11.97
✓RoHS IEEE-1394 Firewire Extension Cable, Type 1 Connectors, PVC Jacket, 30 Microinches Gold						
CSM94X-1M	IEEE-1394 Firewire Extension Cable, Type 1 - Type 1, 1.0m	13.95	12.56	11.16	9.76	8.37
CSM94X-2M	IEEE-1394 Firewire Extension Cable, Type 1 - Type 1, 2.0m	16.95	15.26	13.56	11.86	10.17
CSM94X-3M	IEEE-1394 Firewire Extension Cable, Type 1 - Type 1, 3.0m	19.95	17.95	15.96	13.96	11.97
IEEE-1394b Firewire Cable Assemblies - Transmission Rates to 800 Mbps						
This version of Firewire cable assemblies utilizes a 9 position connector that is compliant with the IEEE-1394b standard. These cables can double the transmission rates of the traditional IEEE-1394a cable assemblies. Cable construction features two individually shielded 26 AWG data pairs plus two 22 AWG power conductors with an overall foil / braid shield and molded backshells. Color is Black.						
✓RoHS IEEE-1394b Firewire Cable, Type B - Type 1, PVC Jacket, 30 Microinches Gold						
CSM94B1-1M	IEEE-1394b Firewire Cable, Type B - Type 1, 1.0m	18.95	17.06	15.16	13.26	11.37
CSM94B1-2M	IEEE-1394b Firewire Cable, Type B - Type 1, 2.0m	22.95	20.66	18.36	16.06	13.77
CSM94B1-3M	IEEE-1394b Firewire Cable, Type B - Type 1, 3.0m	26.95	24.26	21.56	18.86	16.17
CSM94B1-5M	IEEE-1394b Firewire Cable, Type B - Type 1, 5.0m	34.95	31.46	27.96	24.47	20.97
✓RoHS IEEE-1394b Firewire Cable, Type B - Type 2, PVC Jacket, 30 Microinches Gold						
CSM94B2-1M	IEEE-1394b Firewire Cable, Type B - Type 2, 1.0m	18.95	17.06	15.16	13.26	11.37
CSM94B2-2M	IEEE-1394b Firewire Cable, Type B - Type 2, 2.0m	22.95	20.66	18.36	16.06	13.77
CSM94B2-3M	IEEE-1394b Firewire Cable, Type B - Type 2, 3.0m	26.95	24.26	21.56	18.86	16.17
CSM94B2-5M	IEEE-1394b Firewire Cable, Type B - Type 2, 5.0m	34.95	31.46	27.96	24.47	20.97
✓RoHS IEEE-1394b Firewire Cable, Type B - Type B, PVC Jacket, 30 Microinches Gold						
CSM94BB-1M	IEEE-1394b Firewire Cable, Type B - Type B, 1.0m	18.95	17.06	15.16	13.26	11.37
CSM94BB-2M	IEEE-1394b Firewire Cable, Type B - Type B, 2.0m	22.95	20.66	18.36	16.06	13.77
CSM94BB-3M	IEEE-1394b Firewire Cable, Type B - Type B, 3.0m	26.95	24.26	21.56	18.86	16.17
CSM94BB-5M	IEEE-1394b Firewire Cable, Type B - Type B, 5.0m	34.95	31.46	27.96	24.47	20.97

Tip What is Firewire?

Firewire is an emerging high speed communication interconnect standard defined by IEEE-1394. It was originally developed to connect PCs to other PCs or to peripherals such as digital cameras, camcorders, scanners, etc. Current applications include automotive, telecom, data acquisition, aerospace and a host of others. An attractive advantage is devices are hot pluggable meaning live connection/disconnection without data loss or interruption.



Topology

Firewire is a serial, bi-directional bus that can be daisy chained or star shaped with the use of a hub. Firewire does not require terminators or manual addressing.

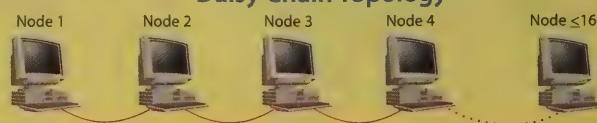
Star Topology



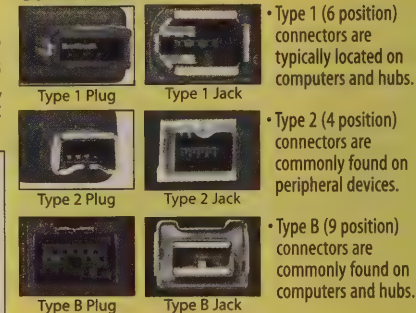
Technical Data: Firewire Limitations

Maximum:	Transmission Rate	Cable Length/Node	# Nodes/Chain	End to End Distance/Chain	Nodes w/Bus Bridge
	400 Mbps (800 Mbps Type B-B only)	4.5 meters	16	72 meters	Approx. 2 ¹⁶

Daisy Chain Topology



Connectors



Item #	Description	1-9	10-24	25-99	100-249	250-499
IEEE-1394 Firewire Latching Cable Assemblies, Type 1 – Type 1						
These assemblies utilize L-com's CN1394L-1 latching Type 1 / 6 position connector on both ends of the cable. The latching connector provides mechanical retention to mating connectors providing a secure connection every time. It is easy to un-mate by depressing the release mechanism and supports Firewire 400 Mbps speeds. L-com can manufacture custom cable assemblies with low minimum quantity requirements and short lead times.						
CSM94L-05M	IEEE-1394 Firewire Latching Cable, Type 1 Male - Type 1 Male, 0.5m	23.95	23.47	22.99	22.51	22.03
CSM94L-1M	IEEE-1394 Firewire Latching Cable, Type 1 Male - Type 1 Male, 1.0m	25.45	24.94	24.43	23.92	23.41
CSM94L-2M	IEEE-1394 Firewire Latching Cable, Type 1 Male - Type 1 Male, 2.0m	28.45	27.88	27.31	26.74	26.17
CSM94L-3M	IEEE-1394 Firewire Latching Cable, Type 1 Male - Type 1 Male, 3.0m	31.45	30.82	30.19	29.56	28.93
CSM94L-5M	IEEE-1394 Firewire Latching Cable, Type 1 Male - Type 1 Male, 5.0m	37.45	36.70	35.95	35.20	34.45

IEEE-1394 Firewire Latching Male Connector, Type 1 (6 Position)

L-com's CN1394L-1 IEEE-1394 Firewire connector is a unique latching male connector that provides mechanical retention to mating connectors providing a secure connection. This latching connector is easy to un-mate by depressing the release mechanism and supports Firewire 400 Mbps speeds. L-com can manufacture custom cable assemblies using this connector with low minimum quantity requirements and short lead times. Or, do it yourself with these easy to solder connectors.

CN1394L-1	IEEE-1394 Firewire Connector, Type 1 Male	10.95	10.29	9.64	8.98	8.32
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IEEE-1394 Firewire Adapters - Molded and Fully Shielded

These adapters allow conversion from IEEE-1394 Type 1 (6 pin) to Type 2 (4 pin) and vice versa. Two versions are offered to solve mismatched Firewire connector combinations. Featuring a durable fully molded design with internal shielding that protects signals from EMI/RFI interference.

FWA010FM	IEEE-1394 Firewire Adapter, Type 1 Female - Type 2 Male	6.50	5.98	5.46	4.94	4.42
FWA011MF	IEEE-1394 Firewire Adapter, Type 1 Male - Type 2 Female	6.50	5.98	5.46	4.94	4.42

IEEE-1394 Firewire Shielded Panel Mount Couplers, Type 1 Connectors

This coupler provides a practical and cost effective way to feed Firewire cables through a panel or enclosure. A unique mounting flange makes these units usable in virtually any panel thickness. Features two Type 1 (6 position) female connectors and metal housing. Recommended 4-40 mounting screws must be purchased separately.

ECF504-94MS	IEEE-1394 Firewire Shielded Coupler, Type 1 Connectors	8.95	8.77	8.41	7.88	6.71
ECF440	Machine Screws, 4-40 x 5/16", Pkg/100	4.35	4.00	3.65	3.31	2.96

3.5" x 19" Firewire (IEEE-1394) Coupler Panel - Equipped with 32 Shielded Firewire Type 1/1 Couplers

These exclusive rack panels are populated with 32 of our ECF504-94MS fully shielded Firewire couplers featuring Type 1 (6 position) female connectors on each end. Panel color is Black with White legend printed 1-32. Panel size is 3.5" x 19".

PR35F504-94MS	3.50" 32 Port Firewire (IEEE-1394) Panel, Shielded	279.95	257.55	235.16	212.76	CALL
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IEEE-1394 Firewire Connector Covers, 6 and 4 Position - Protect Unused Ports, Pkg/10

These covers are perfect for protecting unused female ports in our panel mount couplers or any expensive equipment from physical damage, dirt and dust. Made from soft ABS, these covers attach easily and stay in place with a snug friction fit. Color is Black.

CAP1394-4P	IEEE-1394 Firewire Protective Cover for Type 2 Jacks, Pkg/10	6.50	5.98	5.46	4.94	4.42
CAP1394-6P	IEEE-1394 Firewire Protective Cover for Type 1 Jacks, Pkg/10	6.50	5.98	5.46	4.94	4.42

Item #	Description	List Price
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Gefen IEEE-1394 Fiber Optic Firewire Extender

The Gefen GFN-FW-1394 Fiber Optic Firewire Extender extends your Firewire device up to 1,640 feet away using a single two-strand fiber optic cable. The GFN-FW-1394 Firewire Extender Sender (S) unit is connected to your computer's Firewire port via the supplied Firewire cable. The Firewire Extender Receiver (R) unit sits next to your Firewire peripherals - up to 1,640 feet away. One two-strand LC-LC fiber optic cable (sold separately) connects the Firewire Extender S and the Firewire Extender R units to each other.

GFN-FW-1394	Gefen IEEE-1394 Fiber Optic Firewire Extender	899.00
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Gefen IEEE-1394a/b Firewire Repeaters

The GFN-FW-141/2 Firewire Repeaters work by repeating the Firewire signal and doubling the distance of any Firewire Cable. These units enable Firewire devices to be placed far from the computer for those applications which require long distance connectivity. The Firewire Repeater is placed at the end of each Firewire cable; you can use any combination of Firewire extension cables to extend up to 250 ft. Features include transfer rates of 100/200/400 and up to 800 Mbps using the GFN-FW-142, compliant with IEEE-1394.a & b Standards, shielded plastic case and a manufacturer's 1-year warranty.

GFN-FW-141	Gefen IEEE-1394 Firewire Repeater	79.00
GFN-FW-142	Gefen IEEE-1394 Firewire Repeater 800	99.00

Zonet 3+1 Port IEEE-1394 Firewire PCI Card

The Zonet ZFN2601 provides an economical and easy way to add three IEEE 1394 Firewire ports to your PC. This versatile PCI card supports Serial Bus data rates of 100, 200, and 400 Mbps. Plug and play installation insures fast access to your Firewire devices. Great for connecting DV Camcorders, scanners external hard drives, and other Firewire peripherals. Includes a manufacturer's 1-year warranty.

ZFN2601	Zonet 3+1 Port IEEE-1394 Firewire PCI Card	19.75
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Zonet 4 Port USB 2.0 / 2 Port Firewire PCI Combo Card

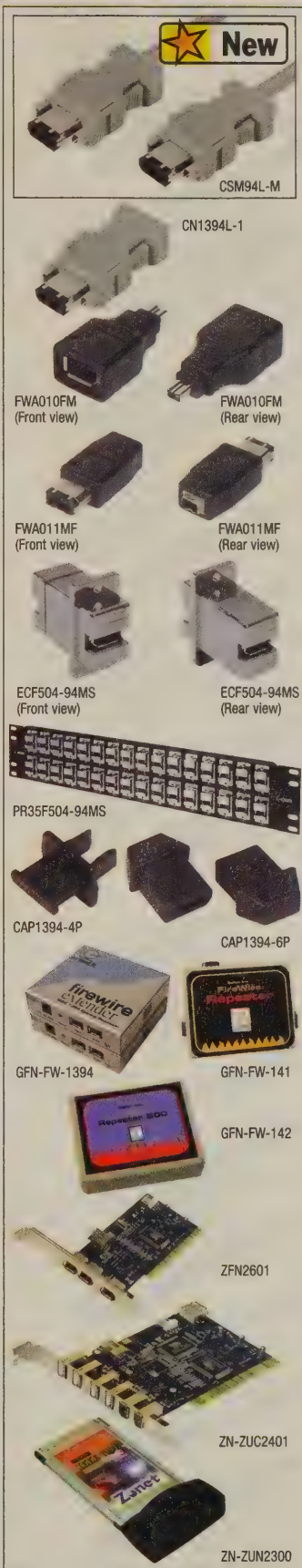
The ZN-ZUC2401 is a flexible and versatile PCI card featuring three USB 2.0 and 2 IEEE-1394 Firewire ports to your PC. This easy to install, Plug and Play PCI card supports USB data rates of 1.5/12/480 Mbps as well as Firewire data speeds of 100/200/400 Mbps. Windows 98SE/ME/2000/XP/Vista operating systems are supported. Includes a manufacturer's 1-year warranty.

ZN-ZUC2401	Zonet 4 Port USB 2.0 / 2 Port Firewire PCI Combo Card	39.00
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Zonet 3 Port IEEE-1394 Firewire 32-Bit CardBus Type-II PC Card

The ZN-ZUN2300 is a 32-Bit CardBus Type-II PC Card that provides three IEEE-1394 Firewire ports. This PC Card can be used to add three Firewire ports to your Laptop's CardBus Type-II slot. Plug and Play installation insures easy installation. Includes a 1-year manufacturer's warranty and supports Windows 98SE/Me/2000/XP.

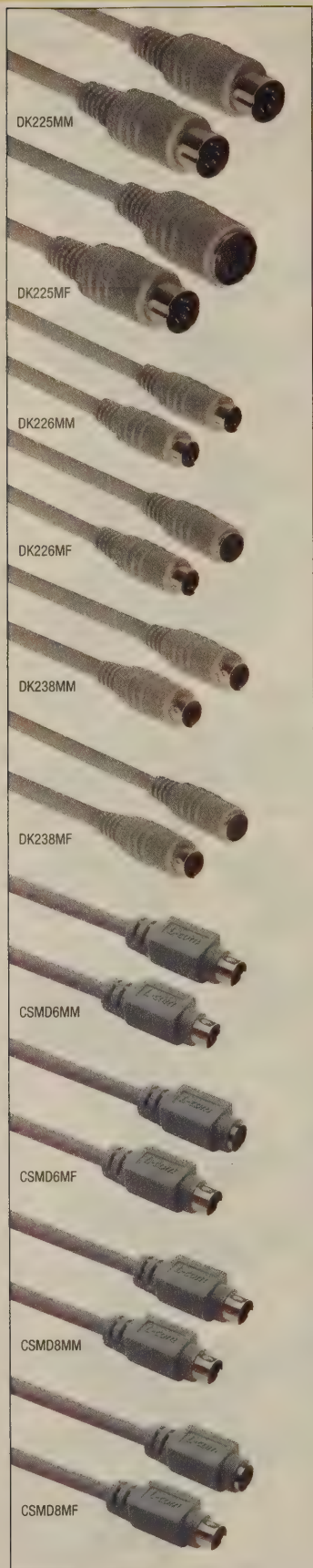
ZN-ZUN2300	Zonet 3 Port IEEE-1394 Firewire 32-Bit CardBus Type-II PC Card	35.00
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We want to help you!

See a complete list of free tips, tutorials and videos at L-com.com/Tips

L-com Global Connectivity



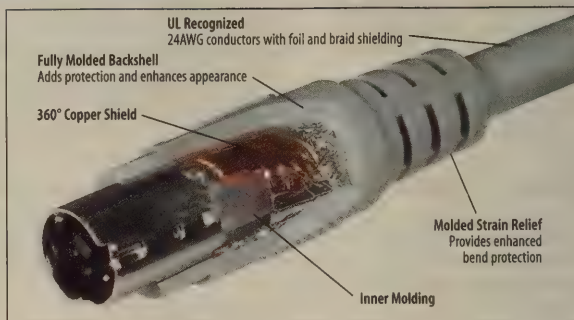
Item # Description

1-9 10-24 25-99 100-249 250-499

DIN and Mini DIN Cables for Computer Keyboards, Mice and Other Uses

These Premium DK Series are the finest DIN/Mini DIN cables on the market. As the illustration reveals, the painstaking attention to detail beneath the surface makes the difference. All DK cables listed are wired straight-thru, fully populated, double shielded (copper braid and aluminum mylar), 24 AWG and fully over molded. Color: Gray.

Common DIN and Mini DIN Jack Uses



RoHS Premium DIN 5 Cables - Fully Populated - Double Shielded

DK225MM-3	Molded Cable, DIN 5 Male / Male, 3.0 ft	6.75	6.35	5.94	5.53	5.13
DK225MM-6	Molded Cable, DIN 5 Male / Male, 6.0 ft	9.75	9.16	8.58	7.99	7.41
DK225MM-10	Molded Cable, DIN 5 Male / Male, 10.0 ft	13.75	12.93	12.10	11.27	10.45
DK225MM-20	Molded Cable, DIN 5 Male / Male, 20.0 ft	23.75	22.33	20.90	19.47	18.05
DK225MM-25	Molded Cable, DIN 5 Male / Male, 25.0 ft	28.75	27.03	25.30	23.58	21.85
DK225MF-3	Molded Extension Cable, DIN 5, Male / Female, 3.0 ft	6.75	6.35	5.94	5.53	5.13
DK225MF-6	Molded Extension Cable, DIN 5, Male / Female, 6.0 ft	9.75	9.16	8.58	7.99	7.41
DK225MF-10	Molded Extension Cable, DIN 5, Male / Female, 10.0 ft	13.75	12.93	12.10	11.27	10.45
DK225MF-20	Molded Extension Cable, DIN 5, Male / Female, 20.0 ft	23.75	22.33	20.90	19.47	18.05
DK225MF-25	Molded Extension Cable, DIN 5, Male / Female, 25.0 ft	28.75	27.03	25.30	23.58	21.85

RoHS Premium Mini DIN 6 Cables - Fully Populated - Double Shielded

DK226MM-1	Molded Cable, Mini DIN 6 Male / Male, 1.0 ft	6.95	6.53	6.12	5.70	5.28
DK226MM-2	Molded Cable, Mini DIN 6 Male / Male, 2.0 ft	7.95	7.47	7.00	6.52	6.04
DK226MM-3	Molded Cable, Mini DIN 6 Male / Male, 3.0 ft	8.95	8.41	7.88	7.34	6.80
DK226MM-6	Molded Cable, Mini DIN 6 Male / Male, 6.0 ft	11.95	11.23	10.52	9.80	9.08
DK226MM-10	Molded Cable, Mini DIN 6 Male / Male, 10.0 ft	15.95	14.99	14.04	13.08	12.12
DK226MM-15	Molded Cable, Mini DIN 6 Male / Male, 15.0 ft	20.95	19.69	18.44	17.18	15.92
DK226MM-20	Molded Cable, Mini DIN 6 Male / Male, 20.0 ft	25.95	24.39	22.84	21.28	19.72
DK226MM-25	Molded Cable, Mini DIN 6 Male / Male, 25.0 ft	30.95	29.09	27.24	25.38	23.52
DK226MF-3	Molded Extension Cable, Mini DIN 6 Male / Female, 3.0 ft	8.95	8.41	7.88	7.34	6.80
DK226MF-6	Molded Extension Cable, Mini DIN 6 Male / Female, 6.0 ft	11.95	11.23	10.52	9.80	9.08
DK226MF-10	Molded Extension Cable, Mini DIN 6 Male / Female, 10.0 ft	15.95	14.99	14.04	13.08	12.12
DK226MF-15	Molded Extension Cable, Mini DIN 6 Male / Female, 15.0 ft	20.95	19.69	18.44	17.18	15.92
DK226MF-20	Molded Extension Cable, Mini DIN 6 Male / Female, 20.0 ft	25.95	24.39	22.84	21.28	19.72
DK226MF-25	Molded Extension Cable, Mini DIN 6 Male / Female, 25.0 ft	30.95	29.09	27.24	25.38	23.52

RoHS Premium Mini DIN 8 Cables - Fully Populated - Double Shielded

DK238MM-1	Molded Cable, Mini DIN 8 Male / Male, 1.0 ft	8.70	8.18	7.66	7.13	6.61
DK238MM-2	Molded Cable, Mini DIN 8 Male / Male, 2.0 ft	9.70	9.12	8.54	7.95	7.37
DK238MM-3	Molded Cable, Mini DIN 8 Male / Male, 3.0 ft	10.70	10.06	9.42	8.77	8.13
DK238MM-6	Molded Cable, Mini DIN 8 Male / Male, 6.0 ft	13.70	12.88	12.06	11.23	10.41
DK238MM-10	Molded Cable, Mini DIN 8 Male / Male, 10.0 ft	17.70	16.64	15.58	14.51	13.45
DK238MM-15	Molded Cable, Mini DIN 8 Male / Male, 15.0 ft	22.70	21.34	19.98	18.61	17.25
DK238MM-20	Molded Cable, Mini DIN 8 Male / Male, 20.0 ft	27.70	26.04	24.38	22.71	21.05
DK238MM-25	Molded Cable, Mini DIN 8 Male / Male, 25.0 ft	32.70	30.74	28.78	26.81	24.85
DK238MF-3	Molded Extension Cable, Mini DIN 8 Male / Female, 3.0 ft	10.70	10.06	9.42	8.77	8.13
DK238MF-6	Molded Extension Cable, Mini DIN 8 Male / Female, 6.0 ft	13.70	12.88	12.06	11.23	10.41
DK238MF-10	Molded Extension Cable, Mini DIN 8 Male / Female, 10.0 ft	17.70	16.64	15.58	14.51	13.45
DK238MF-15	Molded Extension Cable, Mini DIN 8 Male / Female, 15.0 ft	22.70	21.34	19.98	18.61	17.25
DK238MF-20	Molded Extension Cable, Mini DIN 8 Male / Female, 20.0 ft	27.70	26.04	24.38	22.71	21.05
DK238MF-25	Molded Extension Cable, Mini DIN 8 Male / Female, 25.0 ft	32.70	30.74	28.78	26.81	24.85

Economy Mini DIN Cables - Shielded, Molded, Fully Populated

These cables provide an economical choice suitable for many applications and are comparable with most cables on the market. Available with Mini DIN 6 or 8 position connectors. Construction features durable PVC mold, 28 AWG conductors and 360 degree foil shield. Color: Gray.

RoHS Economy Mini DIN 6 Cables - Male to Male and Male to Female

CSMD6MM-3	Economy Molded Cable, Mini DIN 6 Male / Male, 3.0 ft	4.45	4.18	3.92	3.65	3.38
CSMD6MM-6	Economy Molded Cable, Mini DIN 6 Male / Male, 6.0 ft	5.50	5.17	4.84	4.51	4.18
CSMD6MM-10	Economy Molded Cable, Mini DIN 6 Male / Male, 10.0 ft	6.90	6.49	6.07	5.66	5.24
CSMD6MM-25	Economy Molded Cable, Mini DIN 6 Male / Male, 25.0 ft	12.15	11.42	10.69	9.96	9.23
CSMD6MF-3	Economy Molded Cable, Mini DIN 6 Male / Female, 3.0 ft	4.45	4.18	3.92	3.65	3.38
CSMD6MF-6	Economy Molded Cable, Mini DIN 6 Male / Female, 6.0 ft	5.50	5.17	4.84	4.51	4.18
CSMD6MF-10	Economy Molded Cable, Mini DIN 6 Male / Female, 10.0 ft	6.90	6.49	6.07	5.66	5.24
CSMD6MF-25	Economy Molded Cable, Mini DIN 6 Male / Female, 25.0 ft	12.15	11.42	10.69	9.96	9.23

RoHS Economy Mini DIN 8 Cables - Male to Male and Male to Female

CSMD8MM-3	Economy Molded Cable, Mini DIN 8 Male / Male, 3.0 ft	5.60	5.26	4.93	4.59	4.26
CSMD8MM-6	Economy Molded Cable, Mini DIN 8 Male / Male, 6.0 ft	7.10	6.67	6.25	5.82	5.40
CSMD8MM-10	Economy Molded Cable, Mini DIN 8 Male / Male, 10.0 ft	9.10	8.55	8.01	7.46	6.92
CSMD8MM-25	Economy Molded Cable, Mini DIN 8 Male / Male, 25.0 ft	16.60	15.60	14.61	13.61	12.62
CSMD8MF-3	Economy Molded Cable, Mini DIN 8 Male / Female, 3.0 ft	5.60	5.26	4.93	4.59	4.26
CSMD8MF-6	Economy Molded Cable, Mini DIN 8 Male / Female, 6.0 ft	7.10	6.67	6.25	5.82	5.40
CSMD8MF-10	Economy Molded Cable, Mini DIN 8 Male / Female, 10.0 ft	9.10	8.55	8.01	7.46	6.92
CSMD8MF-25	Economy Molded Cable, Mini DIN 8 Male / Female, 25.0 ft	16.60	15.60	14.61	13.61	12.62

Item #	Description	1-9	10-24	25-99	100-249	250-499
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DIN and Mini DIN Adapters and Connectors

These adapters are an L-com exclusive. Useful in many applications including S-video, computer mice, keyboards and instrumentation. A unique design permits easy mounting in standard size 0.5" and 0.75" circular or D shaped openings allowing the use of common punch tooling. Adapter bodies are machined from solid brass. Bright nickel plating provides corrosion resistance and a quality appearance. Gold plated contacts ensure reliable connections. Custom versions will be considered with modest minimums, please contact our Sales Group for assistance.



RoHS DIN and Mini DIN Feed-thru Adapters - Panel and Wall Plate Mountable

These exclusive adapters offer a unique design suitable for panel mounting DIN and Mini DIN adapters. Female-Female gender.

MD44FF	Feed-Thru Adapter, Mini DIN 4, Female / Female	8.35	7.68	7.01	6.35	5.68
MD66FF	Feed-Thru Adapter, Mini DIN 6, Female / Female	8.65	7.96	7.27	6.57	5.88
MD88FF	Feed-Thru Adapter, Mini DIN 8, Female / Female	8.95	8.23	7.52	6.80	6.09
DD55F	Feed-Thru Adapter, DIN 5, Female / Female	8.95	8.23	7.52	6.80	6.09

RoHS Mini DIN Bulkhead Jack to Flying Leads

Machined adapters utilize 4, 6 or 8 26 AWG color coded wires for chassis termination.

MD44FJF	Mini DIN 4 Bulkhead Jack / Leads, Front Mount	9.35	8.60	7.85	7.11	6.36
MD66FJF	Mini DIN 6 Bulkhead Jack / Leads, Front Mount	9.65	8.88	8.11	7.33	6.56
MD88FJF	Mini DIN 8 Bulkhead Jack / Leads, Front Mount	9.95	9.15	8.36	7.56	6.77
MD44FJR	Mini DIN 4 Bulkhead Jack / Leads, Rear Mount	9.35	8.60	7.85	7.11	6.36
MD66FJR	Mini DIN 6 Bulkhead Jack / Leads, Rear Mount	9.65	8.88	8.11	7.33	6.56
MD88FJR	Mini DIN 8 Bulkhead Jack / Leads, Rear Mount	9.95	9.15	8.36	7.56	6.77

Mini DIN Bulkhead Adapter Styles



RoHS Mini DIN 6 and 8 Gender Changers

DMB536F	Gender Changer, Mini DIN 6 Female / Female	3.95	3.63	3.32	3.00	2.69
DMB538F	Gender Changer, Mini DIN 8 Female / Female	3.95	3.63	3.32	3.00	2.69

PS/2 Keyboard Adapters - Use to Interface AT Keyboard with IBM PS/2 Computer

DMB530	PS/2 Keyboard Adapter, Mini DIN 6 Male / DIN 5 Female	5.95	5.47	5.00	4.52	4.05
DMB530R	PS/2 Keyboard Adapter, Mini DIN 6 Female / DIN 5 Male	5.95	5.47	5.00	4.52	4.05

RoHS Premium Mini DIN 6 Y Cable - Fully Populated - Double Shielded - Male to (2) Female

K23-MDY	Molded Y Cable, Mini DIN 6 Male / 2 Mini DIN 6 Female, 1.25 ft	7.95	7.31	6.68	6.04	5.41
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RoHS DIN to Mini DIN Adapter Cables

K23-640	Molded Cable, DIN 5 Male / Mini DIN 6 Female, 0.67 ft	5.55	5.11	4.66	4.22	3.77
K23-642	Molded Cable, DIN 5 Female / Mini DIN 6 Male, 0.67 ft	5.55	5.11	4.66	4.22	3.77

RoHS PS/2 Keyboard Adapters

K23-645	Generic Adapter, DB9 Female / Mini DIN 6 Female	6.95	6.39	5.84	5.28	4.73
K23-646	Generic Adapter, DB9 Male / Mini DIN 6 Male	6.95	6.39	5.84	5.28	4.73
K23-647	Enhanced Adapter, DB9 Female / Mini DIN 6 Female	6.95	6.39	5.84	5.28	4.73

RoHS Mini DIN 4 - S-Video Jack for Field Termination

The MD44FT Field Termination Mini DIN 4 Female jack offers a quick and easy field termination using common tools. Terminal blocks with set screws ensure reliable electrical connections. The terminal block area is clearly marked making field termination virtually foolproof. This unit is designed to fit common 0.5" circular or D style openings. The undercut PCB area provides a convenient area to secure a cable tie wrap resulting in a neat dressing for the terminated cable. Custom configurations will be considered with modest minimums.

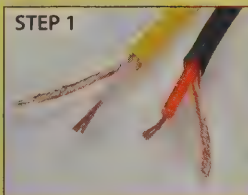
MD44FT	Mini DIN 4 Female Field Termination Jack	6.75	6.21	5.67	5.13	4.59
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Tip

Typical installation of an MD44FT field installable jack

STEP 1



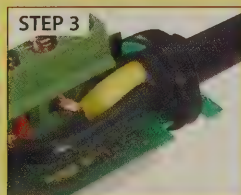
Prepare coaxial lines.

STEP 2



Insert center conductors, shields and tighten set screws.

STEP 3

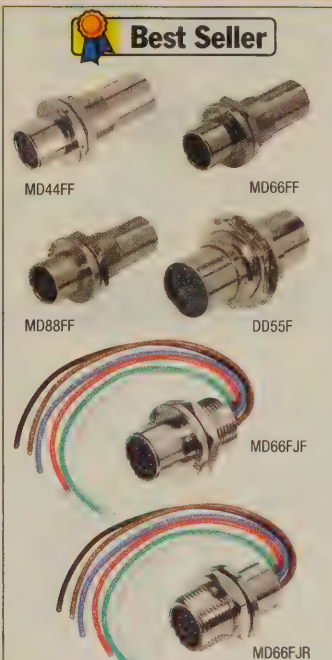


Secure cable with cable tie to connector.

STEP 4



Attach to faceplate and install.

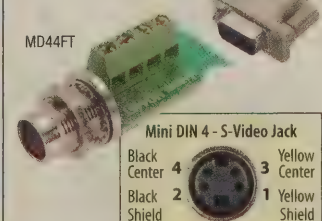


Did you know...

Mini DIN 4 and S-Video are the same interface?



MD44FT



Mini DIN 4 - S-Video Jack

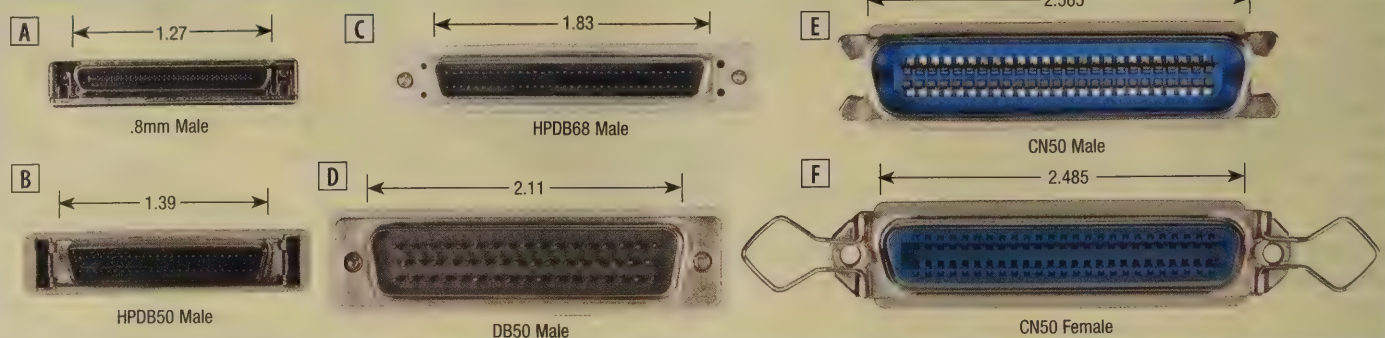
Black Center	4	3	Yellow Center
Black Shield	2	1	Yellow Shield

Connector reference chart

A handy listing of popular connectors.

L-com.com/ConnectorChart

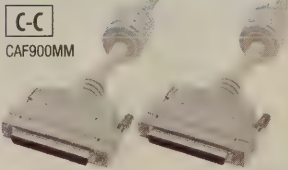
Codes for SCSI Connector Ends



Ultra SCSI (SCSI-5)



Premium Grade SCSI-3



Standard Grade SCSI-3



LSZH SCSI-3



NOTE: All cable measurements are in meters.
1m = 3.28 ft

Item #	Description	# Prs	Code	1-9	10-24	25-99
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Small Computer System Interface (SCSI) Products

Developed as a general purpose data transfer system, the Small Computer System Interface or SCSI standard is most known for connecting data storage devices such as hard drives. L-com carries the four common connector styles for this system to allow easy interconnection of all your SCSI equipment. The above connector guide will help you select the correct connector for each application. Contact us today for all your SCSI cabling needs.

✓RoHS Ultra SCSI (SCSI-5) Cables with .8mm Pitch High-Density Connectors, Offset Backshells

Many SCSI devices now utilize the VHDCI (Very High Density Cable Interconnect) standard. The high performance standard and the mechanical precision of this connector system make workmanship absolutely critical. L-com has fulfilled this requirement with three popular connector combinations. All .8mm connectors utilize offset backshells for applications requiring two side-by-side ports. Special versions will be considered with modest minimums.

CA2000MM-05M	Ultra SCSI Cable, .8mm Male / Male, 0.5m	34	A-A	67.95	66.59	63.87
CA2000MM-1M	Ultra SCSI Cable, .8mm Male / Male, 1.0m	34	A-A	71.95	70.51	67.63
CA2000MM-2M	Ultra SCSI Cable, .8mm Male / Male, 2.0m	34	A-A	79.95	78.35	75.15
CA2000MM-3M	Ultra SCSI Cable, .8mm Male / Male, 3.0m	34	A-A	87.95	86.19	82.67
CA2051MM-05M	Ultra SCSI Cable, .8mm Male / HPDB50 Male, 0.5m	25	A-B	54.95	53.85	51.65
CA2051MM-1M	Ultra SCSI Cable, .8mm Male / HPDB50 Male, 1.0m	25	A-B	58.95	57.77	55.41
CA2051MM-2M	Ultra SCSI Cable, .8mm Male / HPDB50 Male, 2.0m	25	A-B	66.95	65.61	62.93
CA2051MM-3M	Ultra SCSI Cable, .8mm Male / HPDB50 Male, 3.0m	25	A-B	74.95	73.45	70.45
CA2060MM-05M	Ultra SCSI Cable, .8mm Male / HPDB68 Male, 0.5m	34	A-C	59.95	58.75	56.35
CA2060MM-1M	Ultra SCSI Cable, .8mm Male / HPDB68 Male, 1.0m	34	A-C	63.95	62.67	60.11
CA2060MM-2M	Ultra SCSI Cable, .8mm Male / HPDB68 Male, 2.0m	34	A-C	71.95	70.51	67.63
CA2060MM-3M	Ultra SCSI Cable, .8mm Male / HPDB68 Male, 3.0m	34	A-C	79.95	78.35	75.15

✓RoHS Premium Grade SCSI-3 Cables with Ferrite Cores - Reduce Noise Problems

Frequent OEM requests have prompted us to add a premium SCSI-3 cable utilizing ferrite cores to the line. Molded ferrites reduce radiated emissions and undesirable currents within the shield. These cables can be helpful in passing today's tough emissions standards.

CAF900MM-05M	SCSI-3 Cable, HPDB68 Male / Male w/Ferrites, 0.5m	34	C-C	46.45	42.73	39.02
CAF900MM-1M	SCSI-3 Cable, HPDB68 Male / Male w/Ferrites, 1.0m	34	C-C	50.95	46.87	42.80
CAF900MM-2M	SCSI-3 Cable, HPDB68 Male / Male w/Ferrites, 2.0m	34	C-C	59.95	55.15	50.36
CAF900MM-3M	SCSI-3 Cable, HPDB68 Male / Male w/Ferrites, 3.0m	34	C-C	68.95	63.43	57.92

✓RoHS Standard Grade SCSI-3 Cables - Fully Molded and Shielded

All SCSI-3 cables are fully populated with 25 or 34 twisted pairs as required. The high density DB68 connectors utilize 2-56 threaded screws for mounting. Adapter cables have 50 position Centronics, half pitch DB50, or standard DB50 connectors.

CA900MM-05M	SCSI-3 Cable, HPDB68 Male / HPDB68 Male, 0.5m	34	C-C	34.45	31.69	28.94
CA900MM-1M	SCSI-3 Cable, HPDB68 Male / HPDB68 Male, 1.0m	34	C-C	38.95	35.83	32.72
CA900MM-2M	SCSI-3 Cable, HPDB68 Male / HPDB68 Male, 2.0m	34	C-C	47.95	44.11	40.28
CA950MM-05M	SCSI-3 Cable, HPDB68 Male / CN50 Male, 0.5m	25	C-E	27.45	25.25	23.06
CA950MM-1M	SCSI-3 Cable, HPDB68 Male / CN50 Male, 1.0m	25	C-E	31.95	29.39	26.84
CA950MM-2M	SCSI-3 Cable, HPDB68 Male / CN50 Male, 2.0m	25	C-E	40.95	37.67	34.40
CA951MM-05M	SCSI-3 Cable, HPDB68 Male / DB50 Male, 0.5m	25	C-B	28.45	26.17	23.90
CA951MM-1M	SCSI-3 Cable, HPDB68 Male / HPDB50 Male, 1.0m	25	C-B	32.95	30.31	27.68
CA951MM-2M	SCSI-3 Cable, HPDB68 Male / HPDB50 Male, 2.0m	25	C-B	41.95	38.59	35.24
CA955MM-05M	SCSI-3 Cable, HPDB68 Male / DB50 Male, 0.5m	25	C-D	30.45	28.01	25.58
CA955MM-1M	SCSI-3 Cable, HPDB68 Male / DB50 Male, 1.0m	25	C-D	34.95	32.15	29.36
CA955MM-2M	SCSI-3 Cable, HPDB68 Male / DB50 Male, 2.0m	25	C-D	43.95	40.43	36.92

✓RoHS Low Smoke Zero Halogen SCSI-3 Cable Assemblies

These cables meet the requirements of SCSI-3 systems. The high density DB68 SCSI connectors use 2-56 threaded thumbscrews for mounting. Cable assembly construction features 30 microinch gold plated copper alloy contacts, die cast zinc alloy hoods, 28 AWG polypropylene insulated conductors, foil/braid shield and a LSZH outer jacket. Color is Black. L-com will manufacture custom cable assemblies with modest minimum requirements.

CAU2900MM-1M	LSZH SCSI-3 Cable, HPDB68 Male / Male, 1.0m	34	C-C	84.95	78.15	71.36
CAU2900MM-2M	LSZH SCSI-3 Cable, HPDB68 Male / Male, 2.0m	34	C-C	99.95	91.95	83.96
CAU2900MM-3M	LSZH SCSI-3 Cable, HPDB68 Male / Male, 3.0m	34	C-C	114.95	105.75	96.56

Item # Description Code 1-9 10-24 25-99

RoHS SCSI-2 Computer Cables - Molded, Shielded and Compatible with Differential SCSI-2

These differential SCSI-2 cables utilize 25 twisted pair cable and half pitch DB50 connectors, standard DB50 connectors and 50 position Centronics connectors. Half pitch connector housings connect via spring locking latches. All cables are fully molded and have foil and copper braid shielding. Lengths are measured in meters.

CA801-05M	SCSI-2 Molded Cable HPDB50 Male / Male, 0.5m	B-B	19.95	18.35	16.76
CA801-1M	SCSI-2 Molded Cable HPDB50 Male / Male, 1.0m	B-B	23.95	22.03	20.12
CA801-2M	SCSI-2 Molded Cable HPDB50 Male / Male, 2.0m	B-B	31.95	29.39	26.84
CA801-3M	SCSI-2 Molded Cable HPDB50 Male / Male, 3.0m	B-B	39.95	36.75	33.56
CA800-05M	SCSI-2 Molded Cable HPDB50 Male / CN50 Male, 0.5m	B-E	18.95	17.43	15.92
CA800-1M	SCSI-2 Molded Cable HPDB50 Male / CN50 Male, 1.0m	B-E	22.95	21.11	19.28
CA800-2M	SCSI-2 Molded Cable HPDB50 Male / CN50 Male, 2.0m	B-E	30.95	28.47	26.00
CA800-3M	SCSI-2 Molded Cable HPDB50 Male / CN50 Male, 3.0m	B-E	38.95	35.83	32.72
CA805-05M	SCSI-2 Molded Cable HPDB50 Male / DB50 Male, 0.5m	B-D	20.95	19.27	17.60
CA805-1M	SCSI-2 Molded Cable HPDB50 Male / DB50 Male, 1.0m	B-D	24.95	22.95	20.96
CA805-2M	SCSI-2 Molded Cable HPDB50 Male / DB50 Male, 2.0m	B-D	32.95	30.31	27.68

RoHS Differential SCSI-1 Cables - Fully Populated, 25 Twisted Pairs, Molded and Shielded

These differential SCSI-1 cables are built to the 25 pair standard used with most SCSI-1 equipment. The differential interface on the equipment allows longer distances to be achieved by sending information simultaneously along two pairs of wires. DB50 and CN50 cables are fully molded and utilize 26 AWG twisted pairs with foil shielding throughout. Cable length is measured in meters.

CA751MM-05M	SCSI-1 Molded Cable, CN50 Male / Male, 0.5m	E-E	28.95	28.37	27.21
CA751MM-1M	SCSI-1 Molded Cable, CN50 Male / Male, 1.0m	E-E	35.95	35.23	33.79
CA751MM-2M	SCSI-1 Molded Cable, CN50 Male / Male, 2.0m	E-E	49.95	48.95	46.95
CA751MM-3M	SCSI-1 Molded Cable, CN50 Male / Male, 3.0m	E-E	63.95	62.67	60.11
CA751MM-5M	SCSI-1 Molded Cable, CN50 Male / Male, 5.0m	E-E	91.95	90.11	86.43
CA751MM-10M	SCSI-1 Molded Cable, CN50 Male / Male, 10.0m	E-E	161.95	158.71	152.23
CA752MF-1M	SCSI-1 Molded Cable, CN50 Male / Female, 1.0m	E-F	36.00	35.28	33.84
CA752MF-2M	SCSI-1 Molded Cable, CN50 Male / Female, 2.0m	E-F	50.00	49.00	47.00
CA752MF-3M	SCSI-1 Molded Cable, CN50 Male / Female, 3.0m	E-F	64.00	62.72	60.16
CA752MF-5M	SCSI-1 Molded Cable, CN50 Male / Female, 5.0m	E-F	92.00	90.16	86.48
CA752MF-10M	SCSI-1 Molded Cable, CN50 Male / Female, 10.0m	E-F	162.00	158.76	152.28

RoHS SCSI Gender Changers and Adapters

Several models are now offered to satisfy most common applications. Gender changers allow mating of similar cables. Adapters allow the user to match various SCSI cable systems.

DGB50F	Gender Changer, DB50 Female / Female	10.95	9.86	8.76
DGB50M	Gender Changer, DB50 Male / Male	10.95	9.86	8.76
DGC50F	50 Pin Gender Changer, CN50 Female / Female	10.95	9.86	8.76
DGC50M	50 Pin Gender Changer, CN50 Male / Male	10.95	9.86	8.76
CAA808FF	Gender Changer, SCSI-2 HPDB50 Female / Female	17.95	16.87	15.80
CAGC900FF	Gender Changer, SCSI-3 HPDB68 Female / Female	24.95	23.45	21.96
CAA910MF	SCSI Adapter, CN50 Male / HPDB50 Female	28.95	27.21	25.48
CAA908MF	SCSI Adapter, HPDB68 Male / HPDB50 Female	29.95	28.15	26.36
CAA908FF	SCSI Adapter, HPDB68 Female / HPDB50 Female	29.95	28.15	26.36
CAA261MF	SCSI Adapter, 8mm CN68 Male / HPDB68 Female	39.95	37.55	35.16
CAA251MF	SCSI Adapter, 8mm CN68 Male / HPDB50 Female	39.95	37.55	35.16

RoHS SCSI Terminators - Compensate for Inherent Impedance Mismatches on SCSI Bus

Terminators plug into the first and last device on the SCSI bus to match the impedance of the cable to minimize reflected signals. Passive terminators are resistor networks that allow signal voltages to vary with the load and to help curb reflection in a SCSI chain. Active terminators add a voltage regulator to the circuit which allows a consistent signal to be transmitted everywhere on the bus.

CA703	SCSI-1 Feed-Thru Terminator, CN50 Male / Female, Passive	10.50	9.87	9.24
CA704	SCSI-1 Terminator, CN50 Male, Passive	10.50	9.87	9.24
CA902	SCSI-3 Terminator, HPDB68 Male, Active, 2-56 Thumbscrews	22.50	21.15	19.80

Item # Description 1-9 10-24 25-99 100-249 250-499

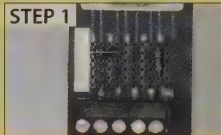
Interface Modules - DIN Rail Mountable, with Shielded D-Sub and RJ45 Connectors

These DIN rail mountable interface modules feature a unique series of plated through holes that allow for the insertion of electronic components inline or across any circuit. Modules are available with shielded DB9, DB15, DB25, DB37 and DB50 female connectors. Also listed is a shielded RJ45 jack version. Terminal block connectors accept 26-12 AWG wire, are easily terminated and do not require crimp ferrules. Please inquire on any custom modifications required.

RBMDIB09F	Interface Module, DB9 Female	55.00	53.90	52.80	51.70	50.60
RBMDIB15F	Interface Module, DB15 Female	62.00	60.76	59.52	58.28	57.04
RBMDIB25F	Interface Module, DB25 Female	72.00	70.56	69.12	67.68	66.24
RBMDIB37F	Interface Module, DB37 Female	85.00	83.30	81.60	79.90	78.20
RBMDIB50F	Interface Module, DB50 Female	140.00	137.20	134.40	131.60	128.80
RBMRJ45F	Interface Module, RJ45 Jack	50.00	49.00	48.00	47.00	46.00



Interface module assembly example



1. Prepare component leads and insert into the desired positions.

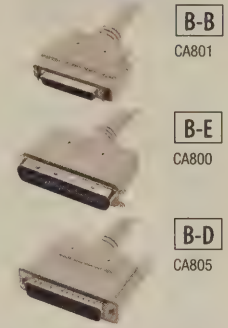


2. Strip wire leads approximately 0.3". Insert stripped wire leads into the desired positions and tighten terminal block screws.

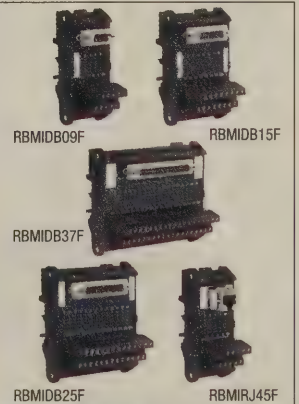
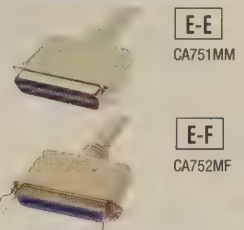


3. Slide interface module onto DIN rail. Plug cable assembly into interface module connector and secure cable hardware to interface module threaded inserts.

SCSI-2



Differential SCSI-1



For more useful information go to...
www.L-com.com/Resources

L-com Global Connectivity



IEEE-488 GPIB Tutorial

What are GPIB cables?

GPIB cables consist of 24 twisted pairs of copper wire and utilize a Centronics 24 style male/female connector.

How are GPIB cables used?

They are used in a bus or star architecture where the connectors "piggy back" each other and then connect primarily test and measurement equipment to PCs and other devices.

Where are GPIB cables used?

GPIB cables are typically used in test and measurement applications and are also used in DAQ (data acquisition) applications.

IEEE-488 Cabling Terms

Adapter: A device used to interconnect two different connector types.

American Wire Gauge (AWG): A U.S. standard set of non-ferrous wire conductor sizes. Typical data wiring is AWG number 24, 26 or 28. The higher the gauge number, the smaller the diameter and thinner the wire.

Backshell (Hood): A mechanical backing that is sometimes put onto a connector. The device protects the conductors and can be assembled or injection molded.

Bus: Also called a "Daisy Chain". A network topology where each node is connected to one another in line. A major disadvantage is that when there is a break in the bus the entire network goes down.

Cable: A set of insulated wires or conductors within an extruded jacket. Many types of cable utilize shielding around the wires and under the cable jacket.

Cable Assembly: A piece of cable that has been terminated with one or more connectors.

Conductor: A metal path, usually copper, that passes electricity. When discussing data cabling, "wire" and "conductor" are synonymous.

Connector: Electromechanical coupling device that provides an electrical interface that can be mated and unmated.

Contact: The specific points of contact within a connector. Contacts can be male (pins) or female (sockets).

Coupler: A device used to connect two similar connector types.

Crosstalk: The coupling of electromagnetic fields from conductors into adjacent conductors. Crosstalk is controlled by twisting the conductors into a pair or by separating/shielding conductors.

Electromagnetic Interference (EMI): Unwanted electromagnetic or electrical energy that causes unwanted responses in electronic equipment.

GPIB: General Purpose Interface Bus. Common name for IEEE-488.

HPIB: Hewlett Packard Interface Bus. Common name for IEEE-488.

IEEE-488: Institute of Electrical and Electronics Engineers interface standard number 488.

Injection Molding: The process used to inject molten polymer into a mold. Connector backshells are often injection molded.

Insulation: A material with very high resistivity used to protect conductors. Insulation is usually extruded over the wire or conductor after the drawing process.

Insulation Displacement Contact: A means of terminating wires without the need of stripping down to the bare wire.

Jack: The female receptacle - usually found on equipment.

Plug: Popular term for a male gender connector of varied types.

Shielding: A conductive foil or braid that covers insulated wires in a cable. The shield provides electrical grounding and protection from external electromagnetic interference (EMI). Shielding is also used to control internal electromagnetic radiation.

Strain Relief: A method of protecting the wire to contact point from flexing or pulling.

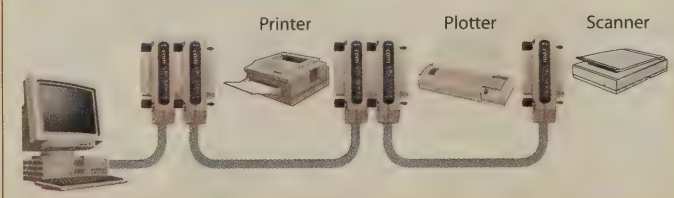
Twisted Pair: Two insulated conductors twisted at a fixed rate of twists per unit of length, typically used in balanced circuits where nominal impedance and crosstalk are critical characteristics.

Wire: Conductive material, typically copper, that has been drawn down to a specific size and coated with an insulating material. A "bare wire" utilizes no insulator coating.



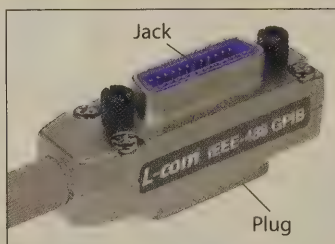
For more useful information go to...
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In-Line / Linear Configuration



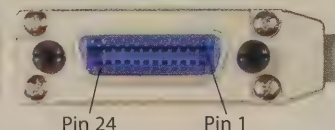
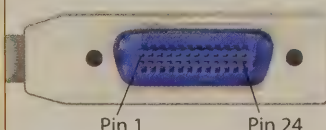
IEEE-488 Connector Specifications

The IEEE-488 GPIB connector utilizes 24 contacts in a parallel configuration.

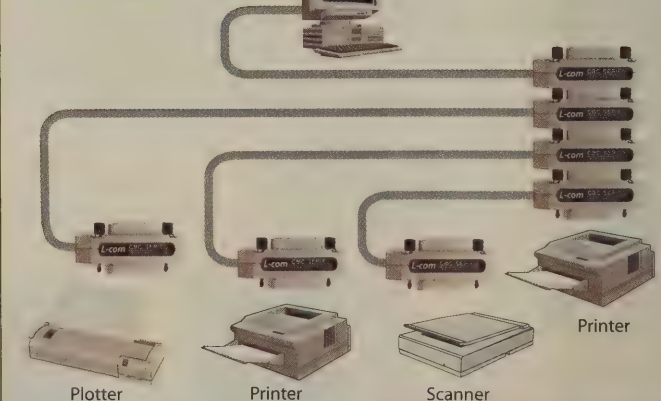


PLUG (male)

JACK (female)

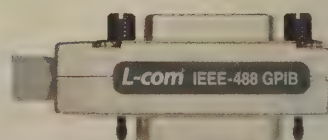


Physical / Star Configuration



IEEE-488 Cable Construction

- 24 conductors with twisted pairs
- Braid Shield with a minimum 85% coverage
- Centronics style 24 position male to female piggy back connectors allowing for easy daisy chaining
- Metric mating hardware, M3.5 x 0.6



L-com IEEE-488 Cable Assembly Options

L-com offers three different cable options to best satisfy customer needs and maximize value:

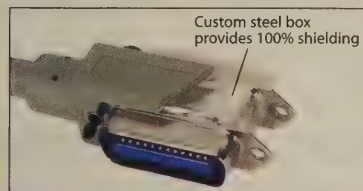
	MOLDED	DELUXE	PREMIUM
Backshell Detail	PVC molded backshell over internal steel shell enclosure	Die cast aluminum, nickel plated backshell	Die cast aluminum, nickel plated backshell
Connector Detail	Stamped steel, nickel plated connectors	Die cast alloy, nickel plated connectors	Die cast alloy, nickel plated connectors
Contact Plating	30 microinch gold plated contacts	30 microinch gold plated contacts	30 microinch gold plated contacts
Cable Shielding	One braid and one foil/mylar overall shield	One braid and one foil/mylar overall shield plus one inner foil/mylar shield	One braid and one foil/mylar overall shield plus one inner braid and one inner foil/mylar shield

L-com is the Originator

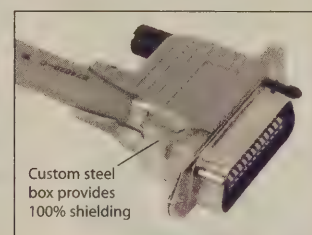
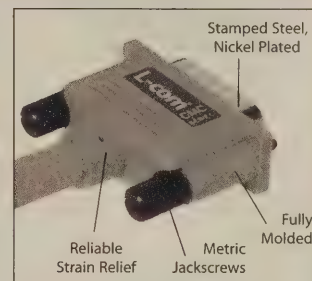
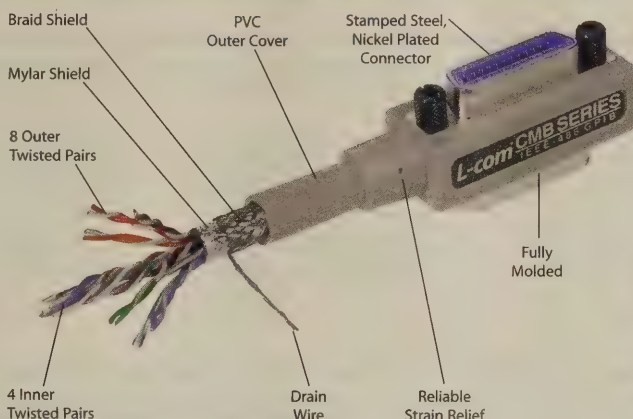
L-com was the first to introduce molded, in-line, male only GPIB cables. Acceptance was immediate and soon users demanded upgraded models with metal connector shells and better cable shielding gradations. Now the female version has been added to complete the series.

We complied with your wishes and we're proud to offer the latest premium and deluxe versions of single ended cables listed as standard items.

We urge you to try this wiring concept and to discover the many real advantages.



Molded Cable Makeup CMB/CIM/CIMB/CMC/CMD Series



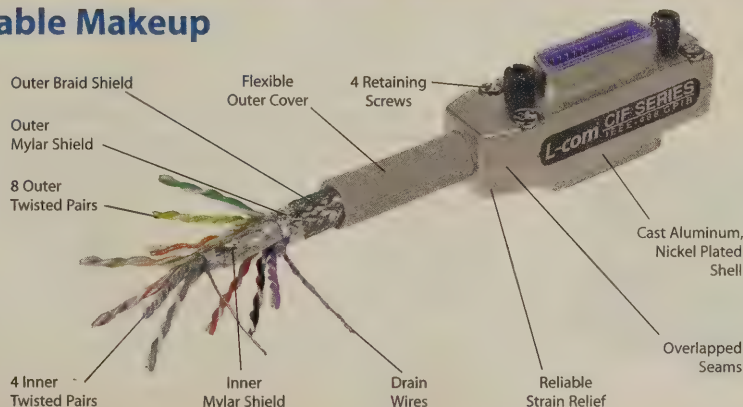
The Industry Standard

Hewlett Packard set the criteria in the design of optimum IEEE-488 GPIB cables with three shields, twisted pairs and metal shells, offering maximum performance.

L-com agreed with this need and developed a comparable cable type that we call the CIF Series. This family of IEEE-488 GPIB cables is directly interchangeable with HP, AMP and Amphenol.

The Deluxe Series is by far your best buy compared to any of the GPIB cables on the market today.

Deluxe Cable Makeup CIF Series

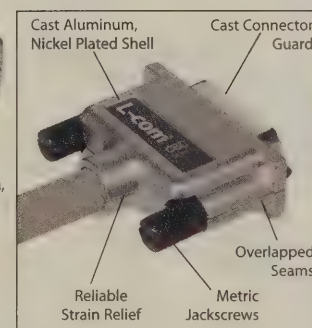
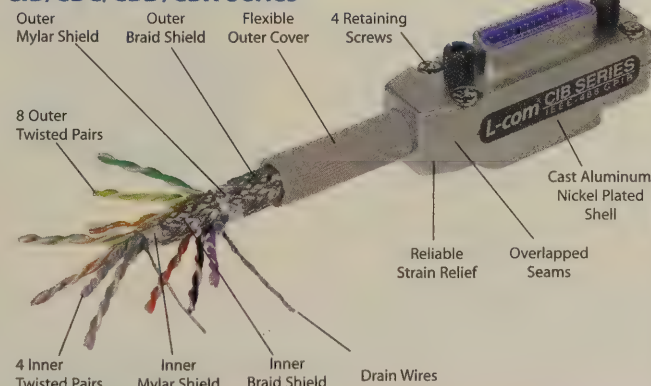


L-com offers the Most Value

A reminder that the difference in cost between good quality wiring components and the IEEE-488 cables offered by discounters is very little indeed. When you consider the total value of the equipment that will be tied into a system, the cost of cables, adapters and accessories becomes only a small part of the total investment.

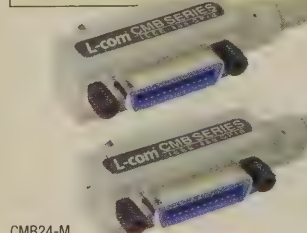
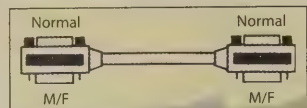
In many applications, it is wise to use the premier cables on the market, L-com's Premium Series. Our cables and accessories are of the highest quality and our prices are realistic. We feel confident that if you compare Quality, Variety, Service and Price you will find that L-com definitely comes out on top on all counts.

Premium Cable Makeup CIB/CBC/CBD/CBX Series

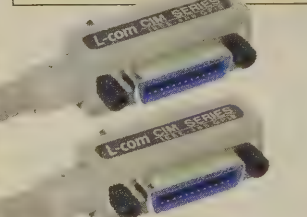
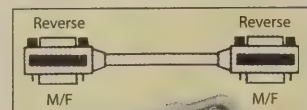


L-com Molded Grade Cable Assemblies

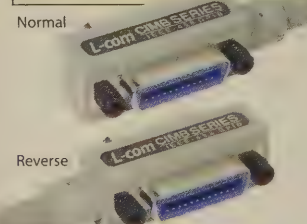
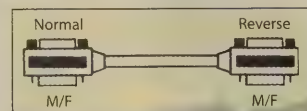
Cables listed on this page utilize **Two Shields** and a fully molded backshell. They are the most economical choice and are the most common substitute to competitor models.



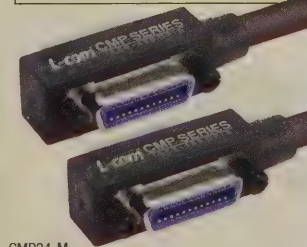
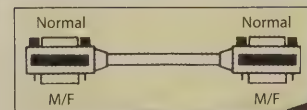
CMB24-M



CIM24-M



CIM24-M



CMP24-M

Item #	Description	Connector Orientation	1-9	10-24	25-99	100-249
RoHS Molded Grade IEEE-488 GPIB Cables - Double Shielded with Molded Backshells						
L-com offers many IEEE-488 cable assembly options. The most economical choice uses double shielded cable that is adequate for many applications. Featuring all-molded connector ends which contribute to a long life expectancy and are impervious to breakage at the point where the cable enters the connector housing. A unique stamped steel internal enclosure provides 100% shielding and a robust strain relief. Considerable savings can be realized using this cable, particularly in volume applications.						
The CMB Cable Series meets all standards of the IEEE-488 interface, conforms with normal mounting procedures and is directly compatible with HP, AMP and Amphenol.						
CMB24-05M	Molded IEEE-488 Cable, 0.5m	Normal / Normal	54.00	51.84	49.68	47.52
CMB24-1M	Molded IEEE-488 Cable, 1.0m	Normal / Normal	57.00	54.72	52.44	50.16
CMB24-2M	Molded IEEE-488 Cable, 2.0m	Normal / Normal	63.00	60.48	57.96	55.44
CMB24-3M	Molded IEEE-488 Cable, 3.0m	Normal / Normal	69.00	66.24	63.48	60.72
CMB24-4M	Molded IEEE-488 Cable, 4.0m	Normal / Normal	75.00	72.00	69.00	66.00
CMB24-5M	Molded IEEE-488 Cable, 5.0m	Normal / Normal	80.00	76.80	73.60	70.40
CMB24-6M	Molded IEEE-488 Cable, 6.0m	Normal / Normal	86.00	82.56	79.12	75.68
CMB24-8M	Molded IEEE-488 Cable, 8.0m	Normal / Normal	98.00	94.08	90.16	86.24

RoHS Molded IEEE-488 GPIB Cables - Two Reverse Entry Connectors to Overcome Difficult Mounting

There are times when the use of a standard GPIB cable is not desirable because of obstructions from other nearby instruments, etc. In some cases it may be more advantageous to have the cable enter the connector housing from the opposite direction. An obvious advantage is when it is used as an extension cable.

CIM24-05M	Molded IEEE-488 Cable, 0.5m	Reverse / Reverse	51.00	48.96	46.92	44.88
CIM24-1M	Molded IEEE-488 Cable, 1.0m	Reverse / Reverse	54.00	51.84	49.68	47.52
CIM24-2M	Molded IEEE-488 Cable, 2.0m	Reverse / Reverse	59.00	56.64	54.28	51.92
CIM24-3M	Molded IEEE-488 Cable, 3.0m	Reverse / Reverse	65.00	62.40	59.80	57.20
CIM24-4M	Molded IEEE-488 Cable, 4.0m	Reverse / Reverse	69.00	66.24	63.48	60.72
CIM24-5M	Molded IEEE-488 Cable, 5.0m	Reverse / Reverse	74.00	71.04	68.08	65.12
CIM24-6M	Molded IEEE-488 Cable, 6.0m	Reverse / Reverse	79.00	75.84	72.68	69.52
CIM24-8M	Molded IEEE-488 Cable, 8.0m	Reverse / Reverse	88.00	84.48	80.96	77.44

RoHS Molded IEEE-488 GPIB Cables - With One Reverse Entry Connector to One Normal Entry

GPIB users realize the virtues of reverse entry and have asked us to provide half and half types. L-com offers GPIB cables that are useful for connecting rack equipment when GPIB receptacles do not orientate properly to allow shortest distance and an orderly appearance.

CIMB24-03M	Molded IEEE-488 Cable, 0.3m	Normal / Reverse	50.00	45.00	40.00	35.00
CIMB24-05M	Molded IEEE-488 Cable, 0.5m	Normal / Reverse	52.00	46.80	41.60	36.40
CIMB24-1M	Molded IEEE-488 Cable, 1.0m	Normal / Reverse	55.00	49.50	44.00	38.50

RoHS Plenum IEEE-488 GPIB Cables - Double Shielded with CMP Rated Jacket

Another innovative breakthrough in the IEEE-488 product offering. These cables utilize a CMP rated cable jacket and overmold material. CMP rated material is a fire retardant compound that possesses exceptional self-extinguishing characteristics. Plenum rated cables are necessary when the highest fire resistant assemblies are required. Cable construction features foil/braid shield, 12 FEP insulated 26 AWG twisted pairs and standard male/female connectors. A unique stamped steel internal enclosure provides 100% shielding and a robust strain relief. Custom lengths or cable assemblies with inline or reverse entry connector orientation can be manufactured with modest minimum requirements.

CMP24-1M	Plenum IEEE-488 Cable, 1.0m	Normal / Normal	143.00	140.14	137.28	134.42
CMP24-2M	Plenum IEEE-488 Cable, 2.0m	Normal / Normal	198.00	194.04	190.08	186.12
CMP24-5M	Plenum IEEE-488 Cable, 5.0m	Normal / Normal	539.00	528.22	517.44	506.66
CMP24-10M	Plenum IEEE-488 Cable, 10.0m	Normal / Normal	1035.00	1014.30	993.60	972.90
CMP24-15M	Plenum IEEE-488 Cable, 15.0m	Normal / Normal	1530.00	1499.40	1468.80	1438.20



The chart below will help you to find the connector orientation style that you need.

Normal Orientation



This is the standard for most GPIB cable assemblies

Reverse Orientation



Great for extending GPIB cable runs

Inline Orientation



Helpful for connecting to GPIB equipment

Item #	Description	Connector Orientation	1-9	10-24	25-99	100-249
RoHS Molded CMC Series IEEE-488 GPIB Cables - Feature One Inline GPIB Male Termination						
These molded GPIB cables are similar in construction and electrical specifications to our popular CMB24 series except that one end terminates to a straight male connector. This is sometimes preferred when there is no apparent need to have the exposed female end. It also eliminates the need for capping the exposed connector. Quite useful when the traditional right angle cable gets in the way of other cables such as in a computer back plane. Both ends of these cables utilize a stamped steel internal closure providing 100% shielding and a robust strain relief.						
CMC24-05M	Molded IEEE-488 Cable, 0.5m	Normal / Inline	46.00	43.24	40.48	37.72
CMC24-1M	Molded IEEE-488 Cable, 1.0m	Normal / Inline	49.00	46.06	43.12	40.18
CMC24-2M	Molded IEEE-488 Cable, 2.0m	Normal / Inline	54.00	50.76	47.52	44.28
CMC24-3M	Molded IEEE-488 Cable, 3.0m	Normal / Inline	60.00	56.40	52.80	49.20
CMC24-4M	Molded IEEE-488 Cable, 4.0m	Normal / Inline	65.00	61.10	57.20	53.30
CMC24-5M	Molded IEEE-488 Cable, 5.0m	Normal / Inline	71.00	66.74	62.48	58.22
CMC24-10M	Molded IEEE-488 Cable, 10.0m	Normal / Inline	98.00	92.12	86.24	80.36

RoHS Adapter/Extension Cable - PC Port Entry and Inline Mating with IEEE-488 GPIB Cables

This dual purpose Adapter/Extension cable has a slim male end that will readily fit through most PC IEEE-488 equipment ports. Very similar in appearance to our standard CMC24 cables except that the single female offset connector has reverse entry allowing GPIB cables to mate in a natural inline direction. Dual shield construction with metal inline and reverse entry backshells. They are available from stock only in standard lengths of eight inches, half and one meter. Longer lengths available on a custom basis.

CMC24XA	GPIB Adapter/Extension Cable, 8 inches	Reverse / Inline	43.00	41.28	39.56	37.84
CMC24XA-05M	GPIB Adapter/Extension Cable, .5 meters	Reverse / Inline	44.00	42.24	40.48	38.72
CMC24XA-1M	GPIB Adapter/Extension Cable, 1 meter	Reverse / Inline	46.00	44.16	42.32	40.48

RoHS Molded CMD Series IEEE-488 GPIB Cables - Have Two Inline GPIB Male Terminations

We've gone one step further with these molded CMD series cables and equipped both ends of the cable with a molded single ended GPIB connector. This new cable type is not only useful in some applications, but also saves money. They have the same specifications as the basic CMB24 series and are fully shielded and molded to last for years.

CMD24-05M	Molded IEEE-488 Cable, 0.5m	Inline / Inline	22.00	21.56	21.12	20.68
CMD24-1M	Molded IEEE-488 Cable, 1.0m	Inline / Inline	27.00	26.46	25.92	25.38
CMD24-2M	Molded IEEE-488 Cable, 2.0m	Inline / Inline	38.00	37.24	36.48	35.72
CMD24-3M	Molded IEEE-488 Cable, 3.0m	Inline / Inline	49.00	48.02	47.04	46.06
CMD24-4M	Molded IEEE-488 Cable, 4.0m	Inline / Inline	60.00	58.80	57.60	56.40
CMD24-5M	Molded IEEE-488 Cable, 5.0m	Inline / Inline	71.00	69.58	68.16	66.74
CMD24-10M	Molded IEEE-488 Cable, 10.0m	Inline / Inline	100.00	98.00	96.00	94.00

RoHS Deluxe Grade IEEE-488 GPIB Cables - Three Shields Plus Cast Aluminum Shells

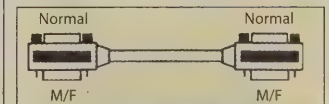
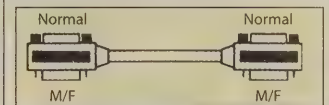
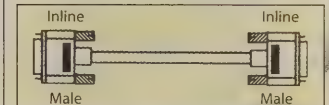
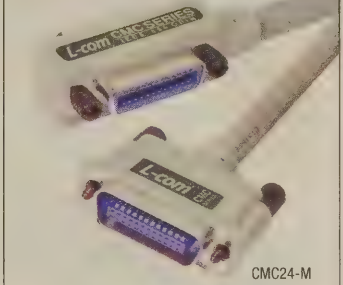
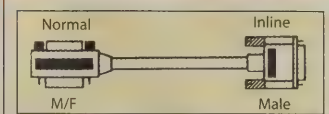
Two foil shields plus one copper braid shield (over 90% coverage) provide low capacitance to maintain the IEEE specifications of these cables. Designed and built to handle your system's data rate, up to the 1 Mbyte/s IEEE maximum. All technical features found in our Premium CIB24 Series are incorporated in this series, the only exception is one less shield. This series is as good as, or better than, other name brand IEEE-488 cables on the market today. This is truly the best buy because you get industry standard features at realistic prices. No other IEEE-488 cables of this grade are available at a competitive price. The CIF24 Series IEEE-488 cables may be used to connect two compatible devices such as a personal computer and a plotter. They can be Daisy-Chain to several computer peripherals or may be used to integrate a system of programmable test instruments and control devices. Each end of every cable has a male/female connector and readily accepts a male terminated cable.

CIF24-03M	Deluxe IEEE-488 Cable, 0.3m	Normal / Normal	77.00	70.84	64.68	CALL
CIF24-05M	Deluxe IEEE-488 Cable, 0.5m	Normal / Normal	80.00	73.60	67.20	CALL
CIF24-1M	Deluxe IEEE-488 Cable, 1.0m	Normal / Normal	85.00	78.20	71.40	CALL
CIF24-2M	Deluxe IEEE-488 Cable, 2.0m	Normal / Normal	90.00	82.80	75.60	CALL
CIF24-3M	Deluxe IEEE-488 Cable, 3.0m	Normal / Normal	95.00	87.40	79.80	CALL
CIF24-4M	Deluxe IEEE-488 Cable, 4.0m	Normal / Normal	102.00	93.84	85.68	CALL
CIF24-5M	Deluxe IEEE-488 Cable, 5.0m	Normal / Normal	107.00	98.44	89.88	CALL
CIF24-6M	Deluxe IEEE-488 Cable, 6.0m	Normal / Normal	128.00	117.76	107.52	CALL
CIF24-8M	Deluxe IEEE-488 Cable, 8.0m	Normal / Normal	147.00	135.24	123.48	CALL

RoHS Premium Grade IEEE-488 GPIB Cables - 4 Shields, Aluminum Nickel Plated Shells

These cables have two copper braid shields coupled with two foil shields to work to reduce the amount of radiated emissions. This helps many systems to pass FCC Part 15, MIL-STD-461A, VDE 0871 and VDE 0875. All wires are twisted pairs to maintain a low capacitance within the 150 pF/m IEEE specification. Besides superior electrical characteristics, this cable has been designed to last a very long time. Care has been given to offer a cable with extreme flexibility that is equipped with a superior strain relief. This prevents the cable from coming apart when it is bent at a sharp angle, which has been a common fault with many IEEE-488 cables on the market today. Cast aluminum, nickel plated shells are used to prevent corrosion and have overlapping seams rather than being butt-jointed. One could hope for nothing else in the makeup of the best IEEE-488 cable. All this offered at a realistic price.

CIB24-03M	Premium IEEE-488 Cable, 0.3m	Normal / Normal	84.00	82.32	80.64	78.96
CIB24-05M	Premium IEEE-488 Cable, 0.5m	Normal / Normal	85.00	83.30	81.60	79.90
CIB24-1M	Premium IEEE-488 Cable, 1.0m	Normal / Normal	91.00	89.18	87.36	85.54
CIB24-2M	Premium IEEE-488 Cable, 2.0m	Normal / Normal	102.00	99.96	97.92	95.88
CIB24-2.5M	Premium IEEE-488 Cable, 2.5m	Normal / Normal	107.00	104.86	102.72	100.58
CIB24-3M	Premium IEEE-488 Cable, 3.0m	Normal / Normal	113.00	110.74	108.48	106.22
CIB24-4M	Premium IEEE-488 Cable, 4.0m	Normal / Normal	125.00	122.50	120.00	117.50
CIB24-5M	Premium IEEE-488 Cable, 5.0m	Normal / Normal	135.00	132.30	129.60	126.90
CIB24-6M	Premium IEEE-488 Cable, 6.0m	Normal / Normal	145.00	142.10	139.20	136.30
CIB24-8M	Premium IEEE-488 Cable, 8.0m	Normal / Normal	165.00	161.70	158.40	155.10
CIB24-10M	Premium IEEE-488 Cable, 10.0m	Normal / Normal	190.00	186.20	182.40	178.60
CIB24-12M	Premium IEEE-488 Cable, 12.0m	Normal / Normal	212.00	207.76	203.52	199.28
CIB24-15M	Premium IEEE-488 Cable, 15.0m	Normal / Normal	245.00	240.10	235.20	230.30
CIB24-18M	Premium IEEE-488 Cable, 18.0m	Normal / Normal	278.00	272.44	266.88	261.32



Free technical support

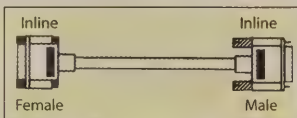
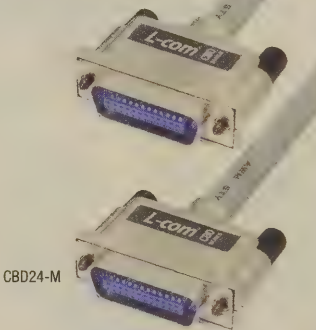
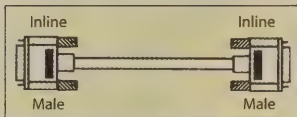
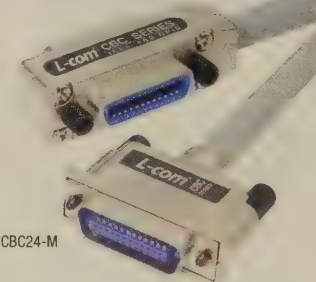
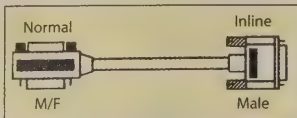
Call toll free at 1-800-343-1455

if you have questions about your application.

L-com Global Connectivity

L-com Premium Grade Cable Assemblies

Cables listed on this page offer **Four Shields plus Cast Aluminum, Nickel Plated shells for the ultimate in EMI protection.**



Item #	Description	Connector Orientation	1-9	10-24	25-99	100-249
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Premium Inline IEEE-488 GPIB Cables - 4 Shields Plus Cast Aluminum Shells

Added versatility is offered by these three series of premium IEEE-488 GPIB cables. They are the industry's first male or female only terminations with many advantages while never posing a problem with cable entry direction. Their natural slim inline design makes these cables ideal for use on PC ports with limited entry access.

The cable makeup of the CBC, CBD and CBX families is identical to our very popular and well accepted CIB24 series. All wires are twisted pairs to maintain low capacitance within the 150 pF/m IEEE specification. Besides superior electrical characteristics, this cable is extremely flexible. Cast aluminum, nickel plated shells are offered for corrosion resistance, strength and maximum RF/EMI shielding protection.

RoHS Premium Grade CBC24 Series IEEE-488 GPIB Cables - With One Inline GPIB Male Termination

This premium series has one conventional male-female connector. The other end terminates to a straight male-only connector, a feature sometimes preferred when there is no need to have a female end exposed. This cable is most useful when the dual-right angle connectors get in the way of other system cables and particularly in a computer back plane.

CBC24-05M	Premium IEEE-488 Cable, 0.5m	Normal / Inline	77.00	70.84	64.68	CALL
CBC24-1M	Premium IEEE-488 Cable, 1.0m	Normal / Inline	81.00	74.52	68.04	CALL
CBC24-2M	Premium IEEE-488 Cable, 2.0m	Normal / Inline	89.00	81.88	74.76	CALL
CBC24-3M	Premium IEEE-488 Cable, 3.0m	Normal / Inline	97.00	89.24	81.48	CALL
CBC24-4M	Premium IEEE-488 Cable, 4.0m	Normal / Inline	105.00	96.60	88.20	CALL
CBC24-5M	Premium IEEE-488 Cable, 5.0m	Normal / Inline	113.00	103.96	94.92	CALL
CBC24-8M	Premium IEEE-488 Cable, 8.0m	Normal / Inline	137.00	126.04	115.08	CALL

RoHS Premium Grade CBD24 Series IEEE-488 GPIB Cables - With Two Inline GPIB Male Terminations

We've also provided this premium series IEEE-488 cable equipped with two single ended male ends. This cable type is not only useful in many applications, but also saves money. It has the same specifications as the basic CIB24 series. All connector guards are cast metal, not stamped metal.

CBD24-05M	Premium IEEE-488 Cable, 0.5m	Inline / Inline	71.00	65.32	59.64	CALL
CBD24-1M	Premium IEEE-488 Cable, 1.0m	Inline / Inline	75.00	69.00	63.00	CALL
CBD24-2M	Premium IEEE-488 Cable, 2.0m	Inline / Inline	83.00	76.36	69.72	CALL
CBD24-3M	Premium IEEE-488 Cable, 3.0m	Inline / Inline	91.00	83.72	76.44	CALL
CBD24-4M	Premium IEEE-488 Cable, 4.0m	Inline / Inline	99.00	91.08	83.16	CALL
CBD24-5M	Premium IEEE-488 Cable, 5.0m	Inline / Inline	107.00	98.44	89.88	CALL
CBD24-8M	Premium IEEE-488 Cable, 8.0m	Inline / Inline	131.00	120.52	110.04	CALL

RoHS Premium Grade CBX24 IEEE-488 GPIB Extension Cables - One Inline Male to One Inline Female Connector

The world's first true IEEE-488 extension cable adds versatility to the inline series as an everyday means of interconnection. A useful cable for those situations which require a longer cable.

CBX24-1M	Premium IEEE-488 Extension Cable, 1.0m	Inline / Inline	75.00	69.00	63.00	CALL
CBX24-2M	Premium IEEE-488 Extension Cable, 2.0m	Inline / Inline	83.00	76.36	69.72	CALL
CBX24-3M	Premium IEEE-488 Extension Cable, 3.0m	Inline / Inline	91.00	83.72	76.44	CALL

Connector Pinouts for All IEEE-488 Cables and Adapters

All IEEE-488 cables and connectors are wired straight thru.

Data Input/Output 5
Data Input/Output 6
Data Input/Output 7
Data Input/Output 8
Remote Enable

Numbers in parentheses indicate ground return lines for message and control lines.

DIO5 --- 13
DIO6 --- 14
DIO7 --- 15
DIO8 --- 16
REN (24) --- 17
Gnd. (6) --- 18
Gnd. (7) --- 19
Gnd. (8) --- 20
Gnd. (9) --- 21
Gnd. (10) --- 22
Gnd. (11) --- 23
Gnd. Logic --- 24

1 --- DIO1
2 --- DIO2
3 --- DIO3
4 --- DIO4
5 --- EOI (24)
6 --- DAV
7 --- NRFD
8 --- NDAC
9 --- IFC
10 --- SRQ
11 --- ATN
12 --- Shield

PLUG

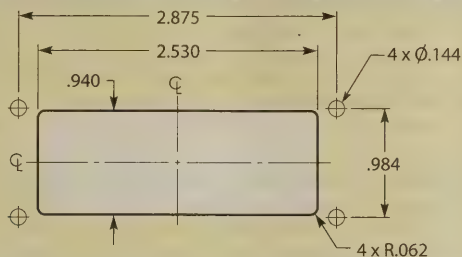
IEEE-488 Hardware Specifications

The IEEE-488 GPIB standard dictated the use of metric thumbscrews for mounting.



Item #	Description	Connector Orientation	1-9	10-24	25-99	100-249
 IEEE-488 GPIB Bulkhead Adapters - The Easiest Way to Feed GPIB Cables Through Panels						
IEEE-488 bulkhead adapters originated because of a need by design and test engineers. These adapters provide the only means of passing an IEEE-488 cable through common cabinet walls and will also provide access to a console work table when mounted on a panel.						
Two basic models are available. The BA model has the conventional male-female entry, where the BF model has two female entries. The BF model allows more than one cable to be mounted piggy-back on both sides of the panel.						
Because of user concerns for ground loops, we now offer another version of the popular CIB24BF with an insulated mounting bracket rather than a metal one. Model CIB24BF-I features a fiberglass mounting bracket.						
CIB24BA	IEEE-488 Bulkhead Adapter, Male / Female	Normal	32.00	29.44	26.88	24.32
CIB24BF	IEEE-488 Bulkhead Adapter, Female / Female	Normal	34.00	31.28	28.56	25.84
CIB24BF-I	IEEE-488 Bulkhead Adapter, Insulated, Female / Female	Normal	35.00	32.20	29.40	26.60

Recommended Panel Openings for IEEE-488 GPIB Bulkhead Adapters



IEEE-488 GPIB Reverse Entry Adapters - The Ultimate Solution for Many Difficult Situations

A new twist has been added to IEEE-488 networking by the introduction of reverse entry adapters. Very similar to the model CIB24BF except that the cables exit in opposite directions. This feature is sometimes desirable and necessary to avoid nearby obstructions. We also offer this reverse entry adapter with an insulated bracket made of fiberglass.

CIB24BFR	Reverse Entry IEEE-488 Bulkhead Adapter, Female / Female	Reverse	34.00	31.28	28.56	25.84
CIB24BFR-I	Reverse Entry IEEE-488 Bulkhead Adapter, Insulated, Female / Female	Reverse	35.00	32.20	29.40	26.60

IEEE-488 GPIB Reverse GPIB Adapter - For Easy Extension of Two Standard IEEE-488 Cables

Normally when an attempt is made to extend two standard IEEE-488 cables, the result is that the cables tend to go in the same direction as shown in Entry A in the Tip below. The XFR reverse adapter will properly orient the two cables so they are in line as shown in Entry B. The double female entry makes it easy to assemble. Made of cast aluminum for light weight and durability.

CIB24XFR	180° Reverse IEEE-488 Adapter, Female / Female	Reverse	26.00	23.92	21.84	19.76
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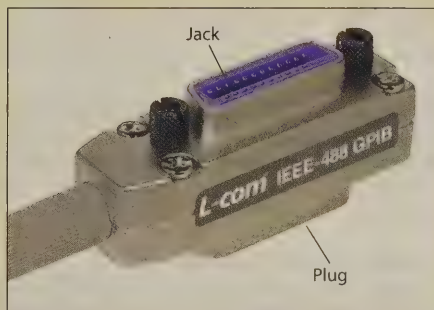
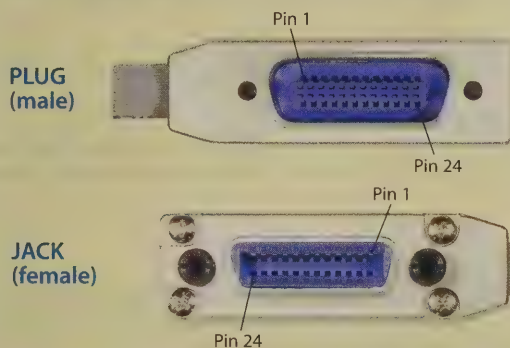
IEEE-488 GPIB Reverse Extender - Changes Cable Direction 180° and Extends Port

This is probably the most versatile extension adapter to have in case an IEEE-488 cable exit interferes with other equipment on the same rack. Simply install the Reverse Extender between the receptacle and GPIB cable.

CIB24XR	180° Reverse IEEE-488 Extender, Male / Female	Reverse	26.00	23.92	21.84	19.76
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IEEE-488 GPIB Connector Specifications

The IEEE-488 GPIB connector utilizes 24 contacts in a parallel configuration.



Tip

L-com reverse entry adapters solve cable extension problems in the field.

Before:

Typical GPIB cables with normal entry are difficult to extend.

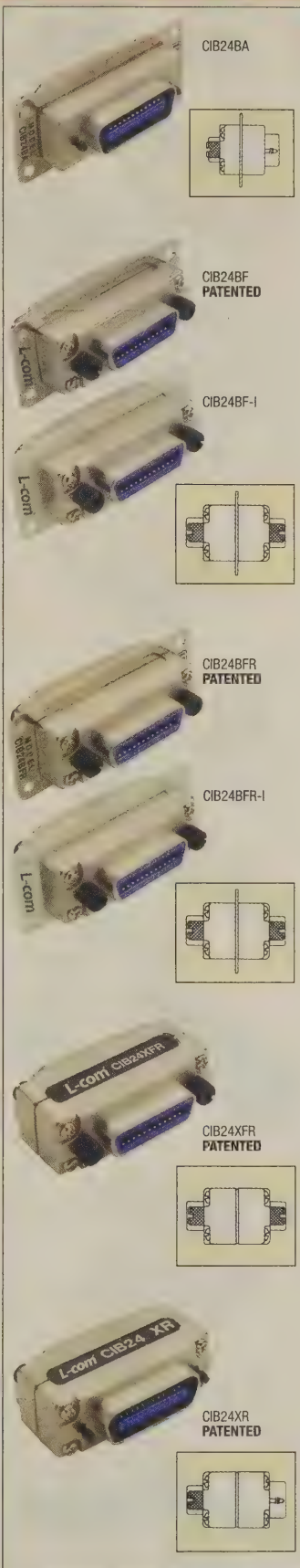
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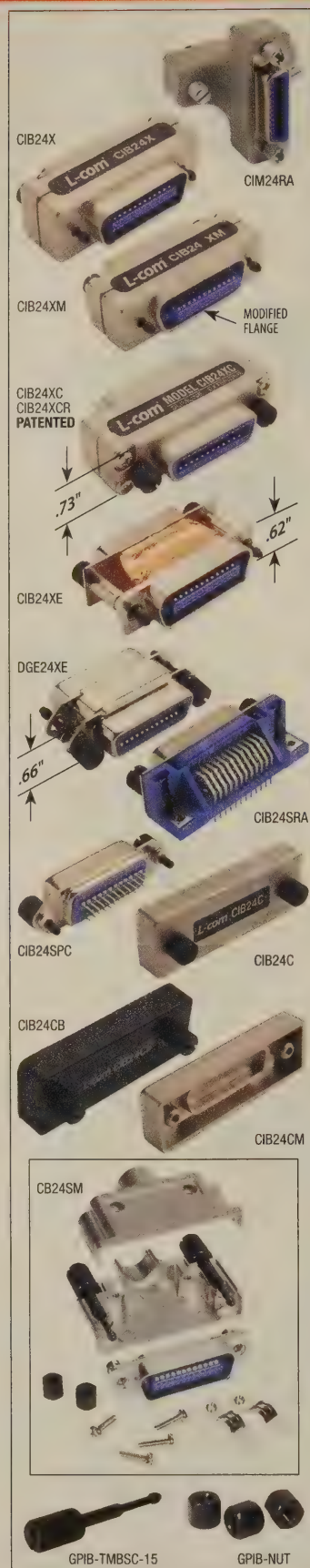


After:

A reverse entry adapter solves the problem.

B





Item #	Description	Connector Orientation	1-9	10-24	25-99	100-249
✓RoHS IEEE-488 GPIB Right Angle Adapter - Used to Change Direction and Avoid Tight Cable Bending						
This right angle adapter is handy to use whenever cable direction needs to be turned 90° to avoid obstacles that would require sharp bends in cable placement, possibly causing cable damage. All molded construction.						
CIM24RA	IEEE-488 Right Angle Adapter, Male / Female	90°	19.52	18.74	17.96	17.18
✓RoHS IEEE-488 GPIB Extender - This Handy Device Provides a One Inch Added Clearance						
Our GPIB extender is sometimes used to provide a one inch extension allowing right angle cables that extra margin to clear adjoining obstacles. It is a very handy item to have on hand in case of an emergency situation. Made of cast aluminum.						
CIB24X	IEEE-488 Extension Adapter, Male / Female	Normal	24.00	22.08	20.16	18.24
✓RoHS IEEE-488 GPIB Extender - With Modified Male Guard Eliminates Thick Panel Interference						
This unique extender has a modified male connector flange that is intentionally made shorter. This shorter flange prevents problems in applications requiring plugging into a receptacle that is mounted on a thick panel that interferes and will not allow the connector to seat properly. This versatile IEEE-488 extender provides a one inch extension allowing right angle cables that extra margin to clear nearby obstacles. Connectors are male to female and satisfy UL94V-0 flammability requirements.						
CIB24XM	Modified IEEE-488 Extender, Male / Female	Normal	26.00	23.92	21.84	19.76
✓RoHS IEEE-488 GPIB Slim-line Extenders - Provide One Inch Additional Clearance, Fits Narrow PC Ports						
These handy, hard to find extenders are normally used to provide a one inch extension allowing right angle cables that extra margin to clear nearby obstacles. Special 0.73" height allows for use with computers having narrow port openings. These extenders can also be used as socket savers for expensive cables and ports by taking the abuse of frequently mated connectors. Connectors are male to female and satisfy UL94V-0 flammability requirements. Quantity pricing available, please contact your L-com Sales Representative.						
CIB24XC	Slim-line IEEE-488 Extender, Male / Female	Normal	27.00	24.84	22.68	20.52
CIB24XCR	Reverse Entry IEEE-488 Slim-line Extender, Male / Female	Reverse	30.00	27.60	25.20	22.80
✓RoHS IEEE-488 GPIB Ultra Slim-line Extenders - No Frills, Fully Shielded, Cast or Stamped Bodies						
There's a growing need for a slimmer IEEE-488 extender that will clear narrow PC port openings. The CIB24XE slimline extender fills that need with an overall width of 0.62 inches. Connectors are cast aluminum with nickel plating and shielding is maintained with copper foil. The DGE24XE has an overall width of 0.66 inches. Connectors and shielding are stamped steel.						
CIB24XE	IEEE-488 Ultra Slim-line Extender-Cast, Male / Female	Normal	19.00	17.48	15.96	14.44
DGE24XE	IEEE-488 Ultra Slim-line Extender-Stamped, Male / Female	Normal	14.50	13.63	12.76	11.89
✓RoHS IEEE-488 GPIB Socket / Connectors - Standard 24 Pin, Mates with all IEEE-488 Interfaces						
These GPIB socket/connectors are ideal for production or replacement use and meet the highest quality standards. Contacts are gold plated for the best connectivity, mating hardware is plated with Black oxide. All plastic materials are UL94V-0 flammability rated. Quantity pricing is available upon request.						
CIB24S	Female IEEE-488 Connector, Solder Lug Terminals		6.00	5.52	5.04	4.56
CIB24SPC	Female IEEE-488 Connector, Straight PC Terminals		6.00	5.52	5.04	4.56
CIB24SRA	Female IEEE-488 Connector, Right Angle PC Terminals		8.00	7.36	6.72	6.08
✓RoHS IEEE-488 GPIB Connector Shielding Covers - Protect Against Contamination, Physical Damage & RFI						
L-com offers two cast aluminum covers that mate to the exposed end of the GPIB cable connector. These covers have many uses such as in production or shipping to protect against dirt or damage to the exposed connector. In the lab, they provide the added service of limiting the port's accessibility. CIB24C is one piece cast aluminum construction with two hold-down screws, captivated to prevent against loss. Available in Natural or Black anodized finish. The CIB24CM is for use with male end, specifically designed for our CMC24 cable series. This version is available only in Natural aluminum finish.						
CIB24C	IEEE-488 Connector Cover, Mates Female GPIB Connectors		6.00	5.52	5.04	4.56
CIB24CB	IEEE-488 Connector Cover, As Above but Black Anodized Finish		6.00	5.52	5.04	4.56
CIB24CM	IEEE-488 Connector Cover, Mates Male GPIB Connectors		6.00	5.52	5.04	4.56
✓RoHS IEEE-488 GPIB Inline Connector Kit - A Good Way to Retrofit Defective Cables						
This unique GPIB inline connector kit allows the user to assemble their own inline IEEE-488 connectors. This handy connector kit includes a solder style male connector, two piece cast aluminum housing, two thumbscrews and a cable clamp. By using this inline connector kit, fast field cable terminations can be realized.						
CB24SM	IEEE-488 Inline Male Connector Kit		13.00	11.96	10.92	9.88

IEEE-488 GPIB Thumbscrews

These handy GPIB thumbscrews are available in packages of 20 and can be used with L-com's Molded, Deluxe and Premium GPIB cable assemblies. GPIB-TMBSC-14 is used with Molded, Normal and Reverse style connectors. GPIB-TMBSC-15 is used with Assembled Inline connectors, GPIB-TMBSC-16 is used with Molded, Inline style connectors and GPIB-TMBSC-17 can be used with Assembled, Normal style connectors.

GPIB-TMBSC-14	IEEE-488 GPIB Thumbscrew, Molded Normal and Reverse Connectors, Pkg/20	11.00	CALL	CALL	CALL
GPIB-TMBSC-15	IEEE-488 GPIB Thumbscrew, Assembled Inline Connectors, Pkg/20	11.00	CALL	CALL	CALL
GPIB-TMBSC-16	IEEE-488 GPIB Thumbscrew, Molded Inline Connectors, Pkg/20	11.00	CALL	CALL	CALL
GPIB-TMBSC-17	IEEE-488 GPIB Thumbscrew, Assembled Normal Connectors, Pkg/20	11.00	CALL	CALL	CALL

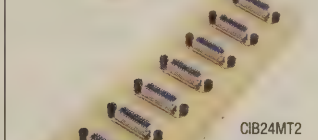
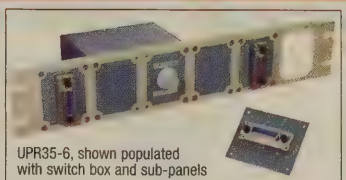
✓RoHS GPIB Nuts - Steel Construction for Durability

These handy GPIB nuts come in packages of 50 and can be used with many GPIB thumbscrews. These nuts feature M3.5 X 0.6 threads and are constructed of durable steel.

GPIB-NUT	IEEE-488 GPIB Nuts, M3.5 x 0.6 Threads, Pkg/50	12.00	CALL	CALL	CALL
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"I'm a graduate student in physical chemistry and have encountered various coaxial, D-sub, and GPIB cables in scientific instruments over the past five years. I've learned as much about the cables in the twenty minutes spent leafing through your catalog as I had in my previous graduate school career. Very impressive. Thank you." - Tony M., University of Chicago

Item #	Description	1-9	10-24	25-99	100-249
Universal IEEE-488 GPIB Transfer Switch Boxes - Allow a Quick Change of Signal Paths					
These compact IEEE-488 transfer switch boxes measure only 5.5"W x 3.25"H x 4.35"D. Constructed of heavy gauge steel to withstand abuse and afford maximum RF/EMI protection. Our most common switch box variations are listed below; others are shown on page 202 of the Rack Panel section. These switch boxes can be used independently or will readily mount in two openings on the L-com Universal panels.					
USP-GABX3	3 Way IEEE-488 Switch Box, A-Front or B or A and B to Rear I/O	77.00	75.46	73.92	72.38
USP-GOAB	3 Way IEEE-488 Switch Box, Off-A-B	77.00	75.46	73.92	72.38



Universal Series Steel 3 1/2" x 19" Rack Panel has Six Openings for Customizations

This rack panel has heavy gauge steel construction with a baked-on enamel finish. Color choice is PC Bone, popular in computerized equipment design, or Black. Six punched rectangular openings accept any of the numerous sub-panels shown in this catalog. Please note that two openings need to be allocated for IEEE-488 and D-Sub switch boxes. Sub-panel openings are 2.20" x 2.75".

UPR35-6	Universal Master Rack Panel with 6 Openings, Bone Color	24.95	23.45	21.96	20.46
UPR35-6B	Universal Master Rack Panel with 6 Openings, Black Color	24.95	23.45	21.96	20.46

Universal Series Sub-Panel with IEEE-488 GPIB Feed-Thru

This is the most efficient way of passing an IEEE-488 cable through a panel to provide access from outside the console. There are two basic feed-thru models available. The BF model will accept a male terminated cable on each side with normal orientation. The BFR version reverses cable direction. (See [page 99](#) for further explanation).

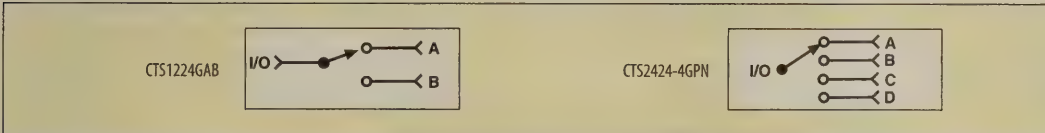
USP24BF	Universal Sub-Panel, IEEE-488 Bulkhead Adapter, Normal Entry	34.95	33.55	32.15	30.76
USP24BFR	Universal Sub-Panel, IEEE-488 Bulkhead Adapter, Reverse Entry	34.95	33.55	32.15	30.76

Note: Full details on Universal Series found on [page 202](#).

IEEE-488 GPIB Transfer Switches - Compact Metal Construction and Rotary Switching

An economy transfer switch that is fully shielded to afford maximum RF/EMI protection. Two models are offered, the traditional A-B two position type and an A-B-C-D switch box.

CTS1224GAB	2 Way IEEE-488 Switch Box, A or B to I/O	94.00	88.36	82.72	77.08
CTS2424-4GPN	4 Way IEEE-488 Switch Box, A, B, C or D to I/O	105.00	98.70	92.40	86.10



19" Patch Panels - With IEEE-488 GPIB Feed-Thru Bulkhead Adapters and Insulated Panel

L-com offers 3 1/2" x 19" rack panels to complement the IEEE-488 system. Use as patch or junction panels to simplify the connection of instruments equipped with a GPIB interface. Patch panels provide a centralized point to organize and provide flexibility to quickly change access ports. All panels are made of heavy gauge steel and finished with a Bone colored baked enamel finish. These panels are equipped with CIB24BF female/female bulkhead adapters. The blank insulated sub-panel allows you to customize to your own needs.

PR35GPF3P	19" Panel with 3 CIB24BF and a Blank Insulated Panel	76.95	75.41	73.87	72.33
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IEEE-488 Multi-Tap Bus Strips - Four or Eight GPIB Receptacles with Optional Mounting Brackets

Our multi-tap bus strips simplify and expedite instrument relocations and changeovers by eliminating bulky cable assembly piggy-backing. Four or eight female connectors wired in parallel with locking standoffs accept GPIB cables in a single plane. Built of heavy chrome plated steel and fully shielded to minimize RF/EMI disturbances. Supplied with rubber feet that rest on any flat surface and optional mounting brackets.

CIB24MT	Multi-Tap Bus Strip with 4 IEEE-488 Receptacles	39.95	39.15	38.35	37.55
CIB24MT2	Multi-Tap Bus Strip with 8 IEEE-488 Receptacles	89.00	87.22	85.44	83.66

IEEE-488 GPIB Multi-Tap Bus Strip with I/O Provision - Up to 3 Units on Universal Rack Panel

Another multi-tap unit has been added to the line. This adds further versatility in the interconnection of IEEE-488 components. This MTU's primary difference is the additional input receptacle. The four output receptacles are located on the outside of the console panel. Up to three MTUs may be installed on one 3 1/2" x 19" Universal rack panel. Installation is easily accomplished by using four mounting screws, provided. It's recommended that inline type cables be used on the input side to avoid any mounting interference. Universal rack panels are purchased separately. Additional blank sub-panels or singly mounted CIB24BF feed-thru adapters are found in the Universal 19" Rack Panel section, [page 202](#).

CIB24MTU	GPIB Multi-Tap, I/O Type for Universal Mounting	45.95	45.03	44.11	43.19
UPR35-6	Universal Master Rack, Bone	24.95	23.45	21.96	20.46

Rack Mounted IEEE-488 GPIB Multi-Tap Bus Strip - Brings Order to Multiple Interconnections

This is a standard 3 1/2" x 19" rack panel containing an eight outlet IEEE-488 distribution panel. This eliminates tangled interconnection cabling so common in GPIB bus systems. Minimizes the need to piggyback IEEE-488 connectors and prevents breakage due to leveraging. Other benefits include: improved cabling, easy tracing of cables and simplified instrument relocation or changeovers. All receptacles are parallel. Note: All wiring is done on the inside of the console. Supplied with rack panel attached.

PR35MT2	GPIB Multi-Tap with 8 Receptacles on Rack Panel	108.95	106.77	104.59	102.41
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USB-488 USB to GPIB Converter Cable

The USB-488 is a USB to GPIB Controller Module that converts any PC with a USB interface into a full-function, IEEE 488.2 Bus Controller. The unit performs all of the basic IEEE-488.1 functions such as talker, listener and system controller. Its IEEE-488.2 controller routines make it fully compliant with the IEEE 488.2 specification. The USB-488 module is a Plug & Play USB peripheral that includes GPIB-488 software library for Windows XP, Windows 2000, and LabVIEW™. The driver includes National Instruments' style 488.1 'ib' and 488.2 command Sets. Additionally the driver provides support for Visual Basic and C/C++ language programs and is compatible with National Instruments' VISA and LabView.

USB-488	USB to GPIB Converter Cable	495.00	CALL	CALL	CALL
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L-com Global Connectivity



Audio / Video Tutorial

What are Audio / Video products?

Audio/Video products consist of cables, adapters, converters and extenders which utilize various video and audio interfaces to transmit and receive video and / or audio signals.

How are Audio / Video products used?

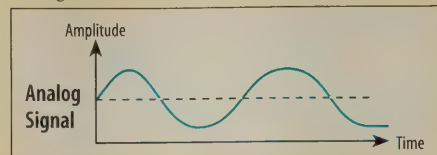
The primary function of Audio/Video cables is the interconnection between a signal generating device such as a CPU (Central Processing Unit) and a display device such as a monitor. The interfaces used to make this connection have evolved over the years and include EVC, HD15, DVI, HDMI and DisplayPort to name a few. Also there are Audio/Video converters which convert two different technologies such as HDMI to DisplayPort etc. Audio/Video extenders amplify, extend and repeat Audio/Video signals.

Where are Audio / Video products used?

Audio/Video products are used in a wide variety of video and/or audio signal transmission applications found in both office and home environments from business computers to home entertainment systems. Additionally these products are used in government and military applications as well as Industrial and process control environments.

Monitor / Video Terms

Analog Signals: Both video and audio signals that are continuously varying in level are considered analog.



Attenuation: Attenuation is the reduction in the strength of a signal.

Bandwidth: The difference between the upper and lower usable limits of a band of frequencies.

Baseband: Unmodulated video or audio signals with an exclusive transmission path.

Chroma: The color portion of a video signal "C".

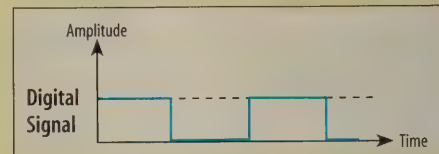
Composite Sync: A combination of horizontal and vertical sync pulses.

dB: A logarithmic unit of measure where 3dB represents a doubling or halving the power level from a given starting point.

DDC: (Data Display Channel) is a standard that defines communication between a monitor and a host system.

DVI : Digital Video Interface

Digital Signals: Data presented as discrete values i.e. On/Off or Binary.



HDMI: High Definition Multimedia Interface. All digital audio and video.

Luma: The brightness portion of a video signal ("Y").

Pixel: A single point on a display.

Resolution: The density of pixels in a given area typically expressed as the horizontal x vertical values, (ex. 640x480).

Refresh Rate: Also referred to as the scan rate. It is the number of times in one second (Hz) that the electron beam travels across the screen horizontally from one scan line to the next.

RGB: Red, Green and Blue.

SVGA: Super Video Graphics Array (HD15).

S-Video: A video signal that separates the "Y" or Luma and "C" or chroma information.

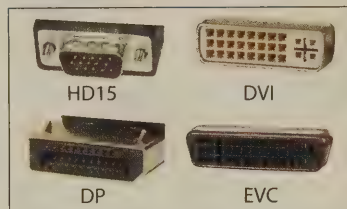


For more useful information go to...
www.L-com.com/Resources

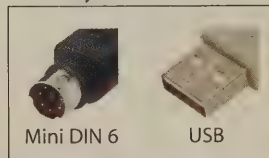
Common Computer Interfaces

The interconnection between a Central Processing Unit (CPU) and the Monitor, Mouse, Keyboard and Speakers found in a typical desktop computer set up uses a number of different interfaces. Below is a list of some of the more common types.

CPU to Monitor



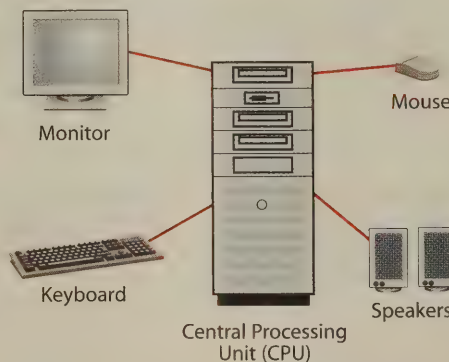
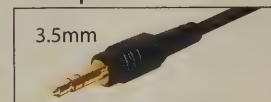
CPU to Keyboard



CPU to Mouse



CPU to Speakers



Major Digital Interfaces

	EVC (Enhanced Video Connector) or P&D (Plug & Display)	DP (Display Port)	DVI (Digital Video Interface)	HDMI (High Definition Multimedia Interface)
Standards Group	VESA (Video Electronics Standards Association)	VESA (Video Electronics Standards Association)	DDWG (Digital Display Work Group)	HDMI Founders (Consortium of leading consumer electronics manufacturers)
Maximum Channels	3	8	6 (Dual Link)	8
Maximum Resolution	SXGA (1280 x 1024)	1080p	QXGA (2048 x 1536)	HDTV 720P and 1080P
Analog / Digital Combination	P&D (30 + 4 Pin) Yes	No	DVI-I (24 + 4 Pin) Yes	No
Digital / Audio	No	Yes	No	Yes

Item #	Description	1-9	10-24	25-99	100-249	250-499
RoHS HDMI Cable Assemblies - Fully Molded						
High Definition Multimedia Interface (HDMI) is the latest interface for the connection of audio/video equipment. HDMI is the first industry supported uncompressed all digital audio/video interface. HDMI is fully backwards compatible with DVI video signals and simplifies interconnections between the signal generating device and the display device by including both the audio and video digital signal in one interface.						
CTLHDMI-DVI-MM-1	HDMI Cable, HDMI Male / DVI-D Male, Single Link, 1.0m	14.99	13.79	12.59	11.39	10.19
CTLHDMI-DVI-MM-2	HDMI Cable, HDMI Male / DVI-D Male, Single Link, 2.0m	23.99	22.07	20.15	18.23	16.31
CTLHDMI-DVI-MM-3	HDMI Cable, HDMI Male / DVI-D Male, Single Link, 3.0m	28.99	26.67	24.35	22.03	19.71
CTLHDMI-DVI-MM-4	HDMI Cable, HDMI Male / DVI-D Male, Single Link, 4.0m	33.99	31.27	28.55	25.83	23.11
CTLHDMI-DVI-MM-5	HDMI Cable, HDMI Male / DVI-D Male, Single Link, 5.0m	39.99	36.79	33.59	30.39	27.19

RoHS HDMI Repeater Cables - Extend Length of Signals up to 20 Meters

L-com's new RHDMM series repeater cables extend the length of HD HDMI signals up to 20 meters (RHDMM-20M) without the use of an external converter/booster. These unique repeater cables make A/V installations easy and aesthetically pleasing as the repeater module is built right into the assembly. Additionally the fully shielded cable design protects against EMI/RFI.

RHDMM-10M	HDMI Repeater Cable, HDMI Male / HDMI Male, 10.0m	86.67	83.20	79.74	76.27	72.80
RHDMM-12M	HDMI Repeater Cable, HDMI Male / HDMI Male, 12.0m	96.99	93.11	89.23	85.35	81.47
RHDMM-15M	HDMI Repeater Cable, HDMI Male / HDMI Male, 15.0m	108.33	104.00	99.66	95.33	91.00
RHDMM-20M	HDMI Repeater Cable, HDMI Male / HDMI Male, 20.0m	130.00	124.80	119.60	114.40	109.20

RoHS Premium HDMI Cable Assemblies - High Density Double Shielded PVC Jacket Protects Against EMI/RFI

L-com's Premium series HDMI cable assemblies are HDMI 1.3 Certified and support up to 1080p resolution. These quality constructed assemblies feature rugged overmold connectors and double shielded PVC jackets ensuring durability. Available in five standard off the shelf lengths, these HDMI cables are perfect for any HDMI A/V application. Custom cable lengths are available upon request.

PHDMICAMM-1M	Premium HDMI Cable, HDMI Male / HDMI Male, 1.0m	21.99	20.67	19.35	18.03	16.71
PHDMICAMM-2M	Premium HDMI Cable, HDMI Male / HDMI Male, 2.0m	24.99	23.49	21.99	20.49	18.99
PHDMICAMM-3M	Premium HDMI Cable, HDMI Male / HDMI Male, 3.0m	27.99	26.31	24.63	22.95	21.27
PHDMICAMM-4M	Premium HDMI Cable, HDMI Male / HDMI Male, 4.0m	31.99	30.07	28.15	26.23	24.31
PHDMICAMM-5M	Premium HDMI Cable, HDMI Male / HDMI Male, 5.0m	34.99	32.89	30.79	28.69	26.59

RoHS Standard HDMI Male to Male Cable Assemblies - HDMI 1.3 Certified

L-com's standard series HDMI cables offers a cost effect way to support myriad HDMI A/V applications. Each cable is functionally tested to ensure top performance and features rugged overmold connectors and double shielded PVC jackets which protect against EMI/RFI. Available in four standard off the shelf lengths, these HDMI cables are perfect for all your HDMI application needs. Custom cable lengths are available upon request.

SHDMICAMM-1M	Standard HDMI Cable, HDMI Male / HDMI Male, 1.0m	13.99	13.15	12.31	11.47	10.63
SHDMICAMM-2M	Standard HDMI Cable, HDMI Male / HDMI Male, 2.0m	15.99	15.03	14.07	13.11	12.15
SHDMICAMM-3M	Standard HDMI Cable, HDMI Male / HDMI Male, 3.0m	17.99	16.91	15.83	14.75	13.67
SHDMICAMM-4M	Standard HDMI Cable, HDMI Male / HDMI Male, 4.0m	19.99	18.79	17.59	16.39	15.19

RoHS HDMI to Mini HDMI Cable Assemblies

Our HDMI to Mini HDMI cables are perfect for connecting standard HDMI interfaces to Mini HDMI peripherals such as camcorders, displays and digital cameras. By utilizing these assemblies there is no need to purchase a separate standalone adapter. Each cable is functionally tested to ensure top performance and features rugged overmold connectors and double shielded PVC jackets which protect against EMI/RFI. This series is available in five standard off the shelf lengths. Custom cable lengths are available upon request.

MHDMI-HDMI-MM-1M	Mini HDMI Cable, HDMI Male / HDMI Male, 1.0m	17.00	15.98	14.96	13.94	12.92
MHDMI-HDMI-MM-2M	Mini HDMI Cable, HDMI Male / HDMI Male, 2.0m	19.99	18.79	17.59	16.39	15.19
MHDMI-HDMI-MM-3M	Mini HDMI Cable, HDMI Male / HDMI Male, 3.0m	22.99	21.61	20.23	18.85	17.47
MHDMI-HDMI-MM-4M	Mini HDMI Cable, HDMI Male / HDMI Male, 4.0m	25.99	24.43	22.87	21.31	19.75
MHDMI-HDMI-MM-5M	Mini HDMI Cable, HDMI Male / HDMI Male, 5.0m	28.99	27.25	25.51	23.77	22.03

RoHS DisplayPort High Definition Audio/Video Cables - The New Digital Display Standard

L-com's DisplayPort (DP) cables offer a single cable solution providing high definition digital audio and video for computing displays, graphic cards and laptops. The DP Technology replaces DVI and VGA cables and is the new digital display standard. It is the HDMI™ equivalent for computers and provides a simple and easy connection for both high definition digital audio and video. Additionally, LSZH versions are offered for specialty applications.

DPCAMM-1M	DisplayPort to DisplayPort, 7 GHz, 1.0m	24.99	22.99	20.99	18.99	16.99
DPCAMM-2M	DisplayPort to DisplayPort, 7 GHz, 2.0m	27.59	25.38	23.18	20.97	18.76
DPCAMM-3M	DisplayPort to DisplayPort, 7 GHz, 3.0m	30.99	28.51	26.03	23.55	21.07
DPCAMM-4M	DisplayPort to DisplayPort, 7 GHz, 4.0m	32.79	30.17	27.54	24.92	22.30
DPCA2MM-1M	DisplayPort to DisplayPort, Low Smoke Zero Halogen, 7 GHz, 1.0m	25.99	23.91	21.83	19.75	17.67
DPCA2MM-2M	DisplayPort to DisplayPort, Low Smoke Zero Halogen, 7 GHz, 2.0m	28.59	26.30	24.02	21.73	19.44
DPCA2MM-3M	DisplayPort to DisplayPort, Low Smoke Zero Halogen, 7 GHz, 3.0m	31.99	29.43	26.87	24.31	21.75
DPCA2MM-4M	DisplayPort to DisplayPort, Low Smoke Zero Halogen, 7 GHz, 4.0m	33.79	31.09	28.38	25.68	22.98

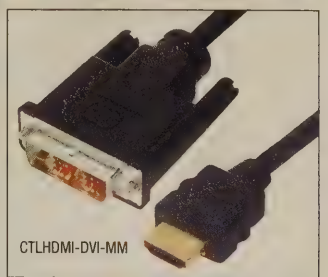
RoHS DisplayPort DVI and HDMI Adapters - DP Male to Either DVI or HDMI Female

L-com offers several adapter options for converting new DisplayPort interfaces to legacy DVI and HDMI equipped products. By utilizing these easy to install adapters, you can protect your original investment and avoid costly upgrades. These active adapters convert DVI or HDMI signals to DisplayPort right inside the adapter.

ADP-DVI-MF	DisplayPort Adapter, DisplayPort Male to DVI Female	30.50	28.67	26.84	25.01	23.18
ADP-HDMI-MF	DisplayPort Adapter, DisplayPort Male to HDMI Female	30.50	28.67	26.84	25.01	23.18
ADP-DVID-MF	DisplayPort Male to DVI-D Female Adapter Cable, 6"	30.50	28.67	26.84	25.01	23.18
ADP-HDMID-MF	DisplayPort Male to HDMI Female Adapter Cable, 6"	30.50	28.67	26.84	25.01	23.18

**Tip What is HDMI Certification?**

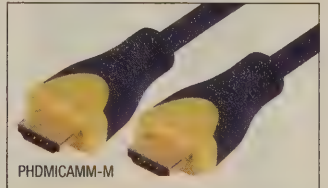
The HDMI consortium has created a certification level for HDMI products where the higher the certification number the higher the bandwidth handling capabilities and /or new features the cable can support such as audio video synch, one bit audio, DVD audio etc. For example HDMI certification 1.0 supports throughput a of 4.9 Gbps and certification level 1.3b1 supports a throughput of 10.2 Gbps. Additionally version 1.3a supports features that 1.0 does not provide such as support of the new Type C mini-connector for portable devices and automatic audio syncing.



CTLHDMI-DVI-MM



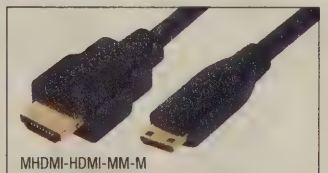
RHDMM-M



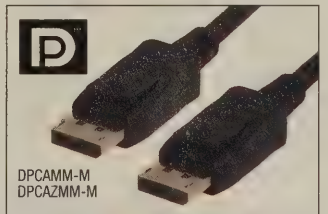
PHDMICAMM-M

Did you know...

L-com is an early adopter of DisplayPort cables and conversion products?



MHDMI-HDMI-MM-M

DPCAMM-M
DPCA2MM-MADP-DVI-MF
ADP-HDMI-MF**RoHS status information**

listed on every product saves you time.

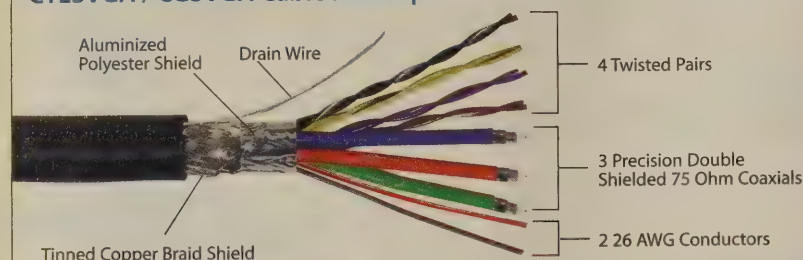
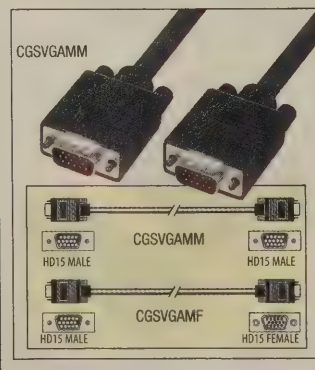
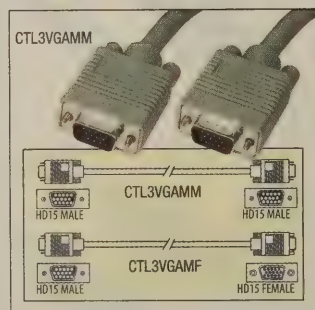
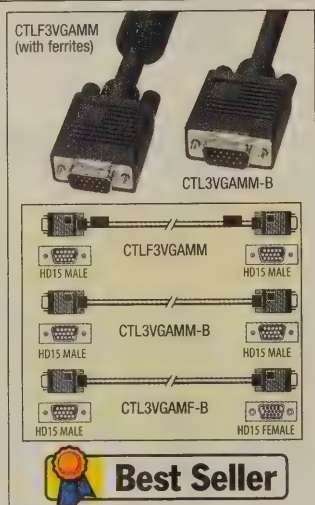
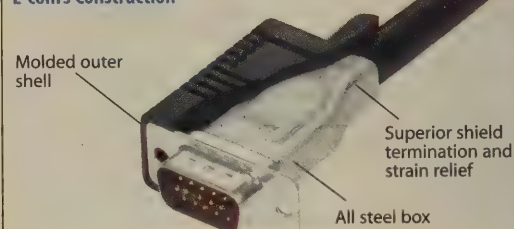
L-com.com/RoHS



L-com vs. Our Competitors

Superior performance requires superior construction. The features beneath the surface are the reason many OEMs have chosen L-com as a key supplier of critical cabling. Superior connector termination utilizing an all steel box provides 360° shielding and reliable strain

relief. The bulk cable is double shielded and utilizes 3 mini true 75 Ohm coaxial lines for unmatched video performance. Available on L-com CTL premium and deluxe cable assemblies.

CTL3VGA / CGSVGA Cable Makeup**A cutaway view of one of L-com's premium and deluxe cables****L-com's Construction**

Item #	Description	#Coax	1-9	10-24	25-99	100-249	250-499
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RoHS Premium Grade Black SVGA Cables - HD15M to HD15M with Coaxial Inners and Ferrites

Premium video assemblies utilize coaxial and twisted pair signal lines plus ferrite cores on either end for optimum video performance.

CTL3VGA-5	SVGA Cable, HD15 Male / Male with Ferrites, 5.0 ft	3	32.00	30.72	29.44	28.16	26.88
CTL3VGA-10	SVGA Cable, HD15 Male / Male with Ferrites, 10.0 ft	3	42.00	40.32	38.64	36.96	35.28
CTL3VGA-25	SVGA Cable, HD15 Male / Male with Ferrites, 25.0 ft	3	72.00	69.12	66.24	63.36	60.48
CTL3VGA-50	SVGA Cable, HD15 Male / Male with Ferrites, 50.0 ft	3	122.00	117.12	112.24	107.36	102.48
CTL3VGA-100	SVGA Cable, HD15 Male / Male with Ferrites, 100.0 ft	3	222.00	213.12	204.24	195.36	186.48
CTL3VGA-200	SVGA Cable, HD15 Male / Male with Ferrites, 200.0 ft	3	422.00	405.12	388.24	371.36	354.48

RoHS Deluxe Grade Black SVGA Cables - HD15M to HD15M with Coaxial Inners

Deluxe video assemblies utilize coaxial and twisted pair signal lines for low loss of signal.

CTL3VGA-3B	SVGA Cable, HD15 Male / Male, 3.0 ft	3	21.00	19.74	18.48	17.22	15.96
CTL3VGA-5B	SVGA Cable, HD15 Male / Male, 5.0 ft	3	24.00	22.56	21.12	19.68	18.24
CTL3VGA-10B	SVGA Cable, HD15 Male / Male, 10.0 ft	3	31.50	29.61	27.72	25.83	23.94
CTL3VGA-20B	SVGA Cable, HD15 Male / Male, 20.0 ft	3	46.50	43.71	40.92	38.13	35.34
CTL3VGA-25B	SVGA Cable, HD15 Male / Male, 25.0 ft	3	54.00	50.76	47.52	44.28	41.04
CTL3VGA-50B	SVGA Cable, HD15 Male / Male, 50.0 ft	3	91.50	86.01	80.52	75.03	69.54
CTL3VGA-100B	SVGA Cable, HD15 Male / Male, 100.0 ft	3	166.50	156.51	146.52	136.53	126.54
CTL3VGA-150B	SVGA Cable, HD15 Male / Male, 150.0 ft	3	241.50	227.01	212.52	198.03	183.54
CTL3VGA-200B	SVGA Cable, HD15 Male / Male, 200.0 ft	3	316.50	297.51	278.52	259.53	240.54

RoHS Deluxe Grade Black SVGA Extension Cables - HD15M to HD15F with Coaxial Inners

CTL3VGA-5B	SVGA Extension Cable, HD15 Male / Female, 5.0 ft	3	24.00	22.56	21.12	19.68	18.24
CTL3VGA-10B	SVGA Extension Cable, HD15 Male / Female, 10.0 ft	3	31.50	29.61	27.72	25.83	23.94
CTL3VGA-20B	SVGA Extension Cable, HD15 Male / Female, 20.0 ft	3	46.50	43.71	40.92	38.13	35.34
CTL3VGA-25B	SVGA Extension Cable, HD15 Male / Female, 25.0 ft	3	54.00	50.76	47.52	44.28	41.04
CTL3VGA-50B	SVGA Extension Cable, HD15 Male / Female, 50.0 ft	3	91.50	86.01	80.52	75.03	69.54
CTL3VGA-75B	SVGA Extension Cable, HD15 Male / Female, 75.0 ft	3	129.00	121.26	113.52	105.78	98.04
CTL3VGA-100B	SVGA Extension Cable, HD15 Male / Female, 100.0 ft	3	166.50	156.51	146.52	136.53	126.54
CTL3VGA-150B	SVGA Extension Cable, HD15 Male / Female, 150.0 ft	3	241.50	227.01	212.52	198.03	183.54
CTL3VGA-200B	SVGA Extension Cable, HD15 Male / Female, 200.0 ft	3	316.50	297.51	278.52	259.53	240.54

RoHS Deluxe Grade Gray SVGA Cables - HD15M to HD15M or HD15M to HD15F with Coaxial Inners

These deluxe cables mate with high resolution color monitors and workstations having HD15 D-Sub connectors. High efficiency coaxial wiring is featured to support critical color lines. All molded construction, fully shielded throughout. OEM quantity pricing and special lengths upon request. Color: Gray.

CTL3VGA-3	SVGA Cable, HD15 Male / Male, 3.0 ft	3	26.95	24.79	22.64	20.48	18.33
CTL3VGA-5	SVGA Cable, HD15 Male / Male, 5.0 ft	3	28.95	26.63	24.32	22.00	19.69
CTL3VGA-10	SVGA Cable, HD15 Male / Male, 10.0 ft	3	33.95	31.23	28.52	25.80	23.09
CTL3VGA-5	SVGA Extension Cable, HD15 Male / Female, 5.0 ft	3	28.95	26.63	24.32	22.00	19.69
CTL3VGA-10	SVGA Extension Cable, HD15 Male / Female, 10.0 ft	3	33.95	31.23	28.52	25.80	23.09
CTL3VGA-25	SVGA Extension Cable, HD15 Male / Female, 25.0 ft	3	48.95	45.03	41.12	37.20	33.29

RoHS Standard Grade Black SVGA Cable Assemblies - HD15M to HD15M or HD15M to HD15F

L-com's new competitively priced standard grade SVGA cables feature three 75 Ohm coaxial cables to assure high quality video signal transmission. Fully molded backshells provide durability and long life expectancy. These rugged RoHS compliant assemblies are available in standard off the shelf lengths from 3 to 50 feet.

CGSVGA-3	SVGA Cable, HD15 Male / Male, 3.0 ft	3	10.99	10.11	9.23	8.35	7.47
CGSVGA-5	SVGA Cable, HD15 Male / Male, 5.0 ft	3	11.99	11.03	10.07	9.11	8.15
CGSVGA-10	SVGA Cable, HD15 Male / Male, 10.0 ft	3	18.79	17.29	15.78	14.28	12.78
CGSVGA-20	SVGA Cable, HD15 Male / Male, 20.0 ft	3	32.00	29.44	26.88	24.32	21.76
CGSVGA-25	SVGA Cable, HD15 Male / Male, 25.0 ft	3	35.00	32.20	29.40	26.60	23.80
CGSVGA-50	SVGA Cable, HD15 Male / Male, 50.0 ft	3	68.99	63.47	57.95	52.43	46.91
CGSVGA-3	SVGA Cable, HD15 Male / Female, 3.0 ft	3	11.20	10.30	9.41	8.51	7.62
CGSVGA-5	SVGA Cable, HD15 Male / Female, 5.0 ft	3	12.20	11.22	10.25	9.27	8.30
CGSVGA-10	SVGA Cable, HD15 Male / Female, 10.0 ft	3	19.05	17.53	16.00	14.48	12.95
CGSVGA-20	SVGA Cable, HD15 Male / Female, 20.0 ft	3	33.33	30.66	28.00	25.33	22.66
CGSVGA-25	SVGA Cable, HD15 Male / Female, 25.0 ft	3	35.49	32.65	29.81	26.97	24.13
CGSVGA-50	SVGA Cable, HD15 Male / Female, 50.0 ft	3	69.19	63.65	58.12	52.58	47.05

Latest new productsSee our latest new products at L-com.com/NewProducts

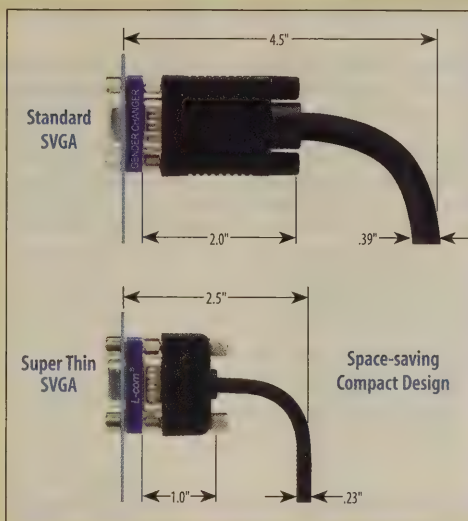
Super Thin SVGA is Ideal for Tight Fitting Spaces

The Super Thin SVGA series offers comparable performance of standard size SVGA assemblies in a much more compact size. Not only is the cable diameter greatly reduced but the depth of the HD15 backshell is also much more shallow than the backshells found on most SVGA assemblies. This results in a SVGA assembly that can be used in tight confines where a standard size SVGA assembly would be difficult if not impossible to use.

An additional feature of this series is reversible hardware allowing either panel mount using standoffs or traditional thumbscrews. The combined results of these features is a product series that is both compact and versatile. These features can be utilized to solve many difficult installation problems without sacrificing performance.

The Super Thin small profile construction is also utilized on our SVGA with disconnect series and our low profile KVM cables.

Note: All dimensions are for reference only.

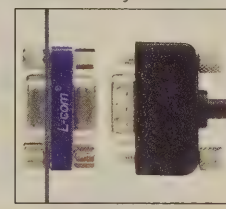
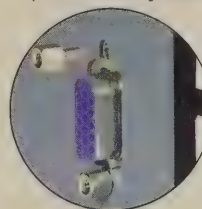


Ultra Flexible

Reversible Hardware

Detail of female end being panel mounted using standoffs

Detail of male end being mounted using thumbscrews



Item #	Description	#Coax	1-9	10-24	25-99	100-249	250-499
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RoHS Super Thin SVGA Cables with 3 Mini Coaxial Lines - HD15M to HD15M or HD15F

Utilize a revolutionary cable made with 3 ultra thin coaxial lines and still measures less than .23" in diameter! Another unique feature is user defined mounting hardware. Each cable end is capable of being connected with either male jack screws or hex standoffs with the supplied hardware! Color: Black.

CTL3VGAMM-5T	Super Thin SVGA Cable, HD15 Male / Male, 5.0 ft	3	30.00	28.20	26.40	24.60	22.80
CTL3VGAMM-10T	Super Thin SVGA Cable, HD15 Male / Male, 10.0 ft	3	37.50	35.25	33.00	30.75	28.50
CTL3VGAMM-15T	Super Thin SVGA Cable, HD15 Male / Male, 15.0 ft	3	45.00	42.30	39.60	36.90	34.20
CTL3VGAMM-25T	Super Thin SVGA Cable, HD15 Male / Male, 25.0 ft	3	60.00	56.40	52.80	49.20	45.60
CTL3VGAMM-50T	Super Thin SVGA Cable, HD15 Male / Male, 50.0 ft	3	97.50	91.65	85.80	79.95	74.10
CTL3VGAMF-5T	Super Thin SVGA Cable, HD15 Male / Female, 5.0 ft	3	30.00	28.20	26.40	24.60	22.80
CTL3VGAMF-10T	Super Thin SVGA Cable, HD15 Male / Female, 10.0 ft	3	37.50	35.25	33.00	30.75	28.50
CTL3VGAMF-15T	Super Thin SVGA Cable, HD15 Male / Female, 15.0 ft	3	45.00	42.30	39.60	36.90	34.20
CTL3VGAMF-25T	Super Thin SVGA Cable, HD15 Male / Female, 25.0 ft	3	60.00	56.40	52.80	49.20	45.60
CTL3VGAMF-50T	Super Thin SVGA Cable, HD15 Male / Female, 50.0 ft	3	97.50	91.65	85.80	79.95	74.10

RoHS Plenum Jacket Super Thin SVGA Cables - HD15M to HD15M or HD15F

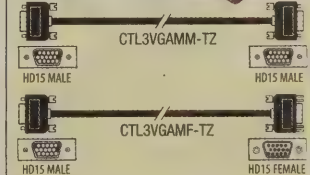
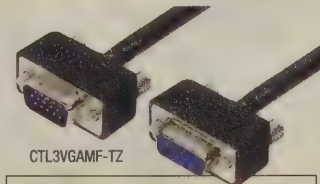
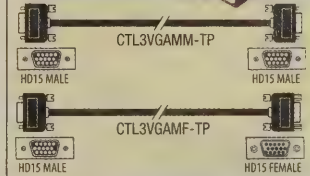
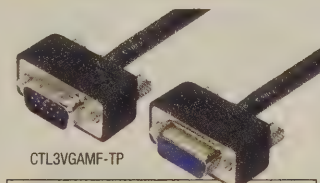
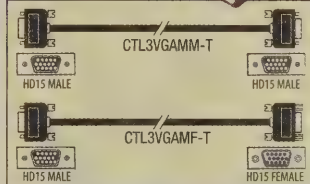
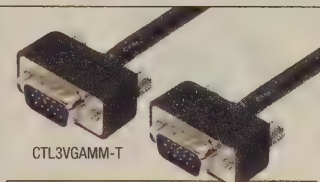
This series is identical to our Super Thin SVGA cables with one important exception, the cable outer jacket and HD15 connector backshell overmold are made from CMP grade plenum material. Color: Black.

CTL3VGAMM-5TP	Super Thin Plenum SVGA Cable, HD15 Male / Male, 5.0 ft	3	80.00	78.40	76.80	75.20	73.60
CTL3VGAMM-10TP	Super Thin Plenum SVGA Cable, HD15 Male / Male, 10.0 ft	3	130.00	127.40	124.80	122.20	119.60
CTL3VGAMM-15TP	Super Thin Plenum SVGA Cable, HD15 Male / Male, 15.0 ft	3	180.00	176.40	172.80	169.20	165.60
CTL3VGAMM-25TP	Super Thin Plenum SVGA Cable, HD15 Male / Male, 25.0 ft	3	280.00	274.40	268.80	263.20	257.60
CTL3VGAMM-50TP	Super Thin Plenum SVGA Cable, HD15 Male / Male, 50.0 ft	3	530.00	519.40	508.80	498.20	487.60
CTL3VGAMF-5TP	Super Thin Plenum SVGA Cable, HD15 Male / Female, 5.0 ft	3	80.00	78.40	76.80	75.20	73.60
CTL3VGAMF-10TP	Super Thin Plenum SVGA Cable, HD15 Male / Female, 10.0 ft	3	130.00	127.40	124.80	122.20	119.60
CTL3VGAMF-15TP	Super Thin Plenum SVGA Cable, HD15 Male / Female, 15.0 ft	3	180.00	176.40	172.80	169.20	165.60
CTL3VGAMF-25TP	Super Thin Plenum SVGA Cable, HD15 Male / Female, 25.0 ft	3	280.00	274.40	268.80	263.20	257.60
CTL3VGAMF-50TP	Super Thin Plenum SVGA Cable, HD15 Male / Female, 50.0 ft	3	530.00	519.40	508.80	498.20	487.60

RoHS LSZH Jacket Super Thin SVGA Cables - HD15M to HD15M or HD15F Cable Assembly

This series of SVGA cables features both our small diameter Super Thin cable and our LSZH jacket for applications where low smoke is critical. An additional feature of this series is our reversible hardware allowing both panel mount using standoffs or traditional thumbscrews. High quality video signal transmission is assured as a result of the three 75 Ohm coaxial lines used in these premium SVGA assemblies. The low profile configuration of our fully molded HD15 backshell makes these assemblies ideal for tight fit installations. Available in 5 standard lengths from 5 to 50 feet.

CTL3VGAMM-5TZ	Super Thin LSZH SVGA Cable, HD15 Male / Male, 5.0 ft	3	46.00	43.24	40.48	37.72	34.96
CTL3VGAMM-10TZ	Super Thin LSZH SVGA Cable, HD15 Male / Male, 10.0 ft	3	61.00	57.34	53.68	50.02	46.36
CTL3VGAMM-15TZ	Super Thin LSZH SVGA Cable, HD15 Male / Male, 15.0 ft	3	76.00	71.44	66.88	62.32	57.76
CTL3VGAMM-25TZ	Super Thin LSZH SVGA Cable, HD15 Male / Male, 25.0 ft	3	106.00	99.64	93.28	86.92	80.56
CTL3VGAMM-50TZ	Super Thin LSZH SVGA Cable, HD15 Male / Male, 50.0 ft	3	181.00	170.14	159.28	148.42	137.56
CTL3VGAMF-5TZ	Super Thin LSZH SVGA Cable, HD15 Male / Female, 5.0 ft	3	46.00	43.24	40.48	37.72	34.96
CTL3VGAMF-10TZ	Super Thin LSZH SVGA Cable, HD15 Male / Female, 10.0 ft	3	61.00	57.34	53.68	50.02	46.36
CTL3VGAMF-15TZ	Super Thin LSZH SVGA Cable, HD15 Male / Female, 15.0 ft	3	76.00	71.44	66.88	62.32	57.76
CTL3VGAMF-25TZ	Super Thin LSZH SVGA Cable, HD15 Male / Female, 25.0 ft	3	106.00	99.64	93.28	86.92	80.56
CTL3VGAMF-50TZ	Super Thin LSZH SVGA Cable, HD15 Male / Female, 50.0 ft	3	181.00	170.14	159.28	148.42	137.56



Free technical support

Call toll free at 1-800-343-1455

if you have questions about your application.

Item #

Description

1-9

10-24

25-99

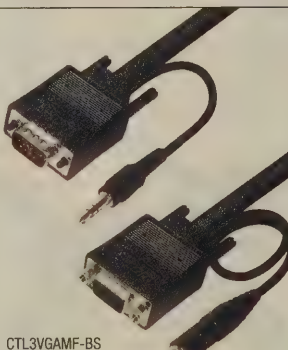
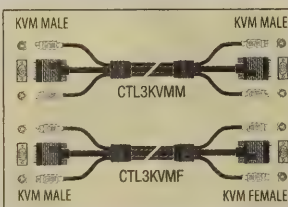
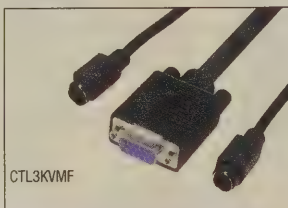
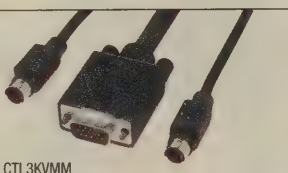
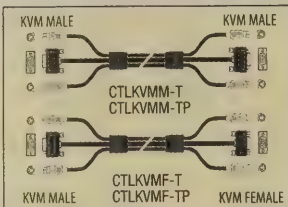
100-249 250-499

KVM Cable Assemblies

To make connections between a CPU (Central Processing Unit) and a Keyboard, Video and Mouse, an integrated KVM cable assembly offers a neat and effective cabling solution. Our KVM cable assemblies are offered with various interface options as well as gender configurations to address a wide range of applications. Coaxial cables are used for the video signal in all our KVM assemblies assuring optimum video signal transmission.

RoHS KVM Cable Low Profile - Integrated HD15 Video and 2 Mini DIN 6 Keyboard and Mouse Lines

These KVM cables combine the flexibility of our Super Thin cables and convenience of our integrated KVM cables. The video, keyboard and mouse lines are bonded ribbon style providing users with easy to manage cabling solutions. Video lines utilize 3 coaxial cables for optimum video signal quality. Supplied with reversible hardware that permits panel mounting and easy hardware matching in the field. Color: Black.



CTLKVMF-5T	Super Thin KVM Cable, Male / Male, 5.0 ft	65.00	58.50	52.00	45.50	39.00
CTLKVMF-10T	Super Thin KVM Cable, Male / Male, 10.0 ft	75.00	67.50	60.00	52.50	45.00
CTLKVMF-15T	Super Thin KVM Cable, Male / Male, 15.0 ft	85.00	76.50	68.00	59.50	51.00
CTLKVMF-25T	Super Thin KVM Cable, Male / Male, 25.0 ft	105.00	94.50	84.00	73.50	63.00
CTLKVMF-50T	Super Thin KVM Cable, Male / Male, 50.0 ft	155.00	139.50	124.00	108.50	93.00
CTLKVMF-5T	Super Thin KVM Cable, Male / Female, 5.0 ft	65.00	58.50	52.00	45.50	39.00
CTLKVMF-10T	Super Thin KVM Cable, Male / Female, 10.0 ft	75.00	67.50	60.00	52.50	45.00
CTLKVMF-15T	Super Thin KVM Cable, Male / Female, 15.0 ft	85.00	76.50	68.00	59.50	51.00
CTLKVMF-25T	Super Thin KVM Cable, Male / Female, 25.0 ft	105.00	94.50	84.00	73.50	63.00
CTLKVMF-50T	Super Thin KVM Cable, Male / Female, 50.0 ft	155.00	139.50	124.00	108.50	93.00

RoHS Plenum Jacket Super Thin KVM Cables- HD15 Video and 2 Mini DIN 6 Keyboard and Mouse Lines

This series is identical to our Super Thin KVM cables with one important exception, the cable outer jacket and HD15 connector backshell overmold are made from CMP grade plenum material. Color: Black.

CTLKVMF-5TP	Super Thin Plenum KVM Cable, Male / Male, 5.0 ft	105.00	102.90	100.80	98.70	96.60
CTLKVMF-10TP	Super Thin Plenum KVM Cable, Male / Male, 10.0 ft	180.00	176.40	172.80	169.20	165.60
CTLKVMF-15TP	Super Thin Plenum KVM Cable, Male / Male, 15.0 ft	255.00	249.90	244.80	239.70	234.60
CTLKVMF-25TP	Super Thin Plenum KVM Cable, Male / Male, 25.0 ft	405.00	396.90	388.80	380.70	372.60
CTLKVMF-50TP	Super Thin Plenum KVM Cable, Male / Male, 50.0 ft	780.00	764.40	748.80	733.20	717.60
CTLKVMF-5TP	Super Thin Plenum KVM Cable, Male / Female, 5.0 ft	105.00	102.90	100.80	98.70	96.60
CTLKVMF-10TP	Super Thin Plenum KVM Cable, Male / Female, 10.0 ft	180.00	176.40	172.80	169.20	165.60
CTLKVMF-15TP	Super Thin Plenum KVM Cable, Male / Female, 15.0 ft	255.00	249.90	244.80	239.70	234.60
CTLKVMF-25TP	Super Thin Plenum KVM Cable, Male / Female, 25.0 ft	405.00	396.90	388.80	380.70	372.60
CTLKVMF-50TP	Super Thin Plenum KVM Cable, Male / Female, 50.0 ft	780.00	764.40	748.80	733.20	717.60

RoHS KVM Cables - Integrate HD15 Video and 2 Mini DIN 6 Keyboard and Mouse Lines in One

The CTL3KVM series combines a HD15 (video) cable with two Mini DIN 6 (keyboard and mouse) lines into one assembly. Cables come in male-male genders for interconnection between a KVM switch and a CPU and male-female for connecting between a CPU and the keyboard, monitor and mouse. Color: Black.

CTL3KVMF-3	KVM Cable, Male / Male, 3.0 ft	47.70	45.79	43.88	41.98	40.07
CTL3KVMF-5	KVM Cable, Male / Male, 5.0 ft	51.50	49.44	47.38	45.32	43.26
CTL3KVMF-7.5	KVM Cable, Male / Male, 7.5 ft	56.25	54.00	51.75	49.50	47.25
CTL3KVMF-10	KVM Cable, Male / Male, 10.0 ft	61.00	58.56	56.12	53.68	51.24
CTL3KVMF-20	KVM Cable, Male / Male, 20.0 ft	80.00	76.80	73.60	70.40	67.20
CTL3KVMF-25	KVM Cable, Male / Male, 25.0 ft	89.50	85.92	82.34	78.76	75.18
CTL3KVMF-50	KVM Cable, Male / Male, 50.0 ft	137.00	131.52	126.04	120.56	115.08
CTL3KVMF-100	KVM Cable, Male / Male, 100.0 ft	232.00	222.72	213.44	204.16	194.88
CTL3KVMF-3	KVM Cable, Male / Female, 3.0 ft	49.70	47.71	45.72	43.74	41.75
CTL3KVMF-5	KVM Cable, Male / Female, 5.0 ft	53.50	51.36	49.22	47.08	44.94
CTL3KVMF-7.5	KVM Cable, Male / Female, 7.5 ft	58.25	55.92	53.59	51.26	48.93
CTL3KVMF-10	KVM Cable, Male / Female, 10.0 ft	63.00	60.48	57.96	55.44	52.92
CTL3KVMF-20	KVM Cable, Male / Female, 20.0 ft	82.00	78.72	75.44	72.16	68.88
CTL3KVMF-25	KVM Cable, Male / Female, 25.0 ft	91.50	87.84	84.18	80.52	76.86
CTL3KVMF-50	KVM Cable, Male / Female, 50.0 ft	139.00	133.44	127.88	122.32	116.76
CTL3KVMF-100	KVM Cable, Male / Female, 100.0 ft	234.00	224.64	215.28	205.92	196.56

RoHS Premium Grade Black SVGA Extension Cables with Stereo Connections

These extension cables are great for extending your monitor, speakers or microphone away from the CPU. HD15 male and female connectors utilize coaxial innners for best signal. Stereo connection is made through a plug and jack.

CTL3VGAMF-5BS	SVGA Extension Cable, Male / Female, 5.0 ft	38.95	35.83	32.72	29.60	26.49
CTL3VGAMF-10BS	SVGA Extension Cable, Male / Female, 10.0 ft	43.95	40.43	36.92	33.40	29.89
CTL3VGAMF-25BS	SVGA Extension Cable, Male / Female, 25.0 ft	58.95	54.23	49.52	44.80	40.09
CTL3VGAMF-50BS	SVGA Extension Cable, Male / Female, 50.0 ft	83.95	77.23	70.52	63.80	57.09

**Tip When do you use Plenum Cable?**

In building construction, the space used for air circulation (heating and air conditioning) is called the plenum. This space is also commonly used to route communications cable. This poses a serious hazard in the event of fire due to lack of barriers to contain the smoke and flames. This is why various fire codes and the National Electrical Code (NEC) require the use of fire resistant and low smoke producing cable in these areas. This type of cable is called plenum cable which is made with a fire retardant compound that exhibits self extinguishing characteristics.



Item #	Description	1-9	10-24	25-99	100-249	250-499
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DVI Products

DVI (Digital Video Interface) is a widely used interface specifically designed for the transmission of digital signals. Our DVI cable assemblies and adapters are offered in various interface combinations and gender configurations to address a broad range of connection applications.

DVI Cable Assemblies - Fully Molded with Ferrites

This series of DVI cable assemblies features a molded integrated ferrite on both ends for EMI/RFI protection and a fully molded and shielded backshell. Offered in 4 standard lengths not exceeding the recommended 5 meter maximum for DVI cables.

RoHS DVI-I Single Link Cable Assembly with Ferrites

CTLDVI-ISL-MM-3	DVI Cable, DVI-I Single Link Male / Male, 3.0 ft	35.00	32.20	29.40	26.60	23.80
CTLDVI-ISL-MM-5	DVI Cable, DVI-I Single Link Male / Male, 5.0 ft	40.00	36.80	33.60	30.40	27.20
CTLDVI-ISL-MM-10	DVI Cable, DVI-I Single Link Male / Male, 10.0 ft	52.50	48.30	44.10	39.90	35.70
CTLDVI-ISL-MM-15	DVI Cable, DVI-I Single Link Male / Male, 15.0 ft	65.00	59.80	54.60	49.40	44.20

RoHS DVI-I Dual Link Cable Assembly with Ferrites

CTLDVI-I-MM-3	DVI Cable, DVI-I Dual Link Male / Male, 3.0 ft	40.00	36.80	33.60	30.40	27.20
CTLDVI-I-MM-5	DVI Cable, DVI-I Dual Link Male / Male, 5.0 ft	45.00	41.40	37.80	34.20	30.60
CTLDVI-I-MM-10	DVI Cable, DVI-I Dual Link Male / Male, 10.0 ft	57.50	52.90	48.30	43.70	39.10
CTLDVI-I-MM-15	DVI Cable, DVI-I Dual Link Male / Male, 15.0 ft	70.00	64.40	58.80	53.20	47.60

RoHS DVI-D Single Link Cable Assembly with Ferrites

CTLDVIMM-3	DVI Cable, DVI-D Single Link Male / Male, 3.0 ft	30.00	27.60	25.20	22.80	20.40
CTLDVIMM-5	DVI Cable, DVI-D Single Link Male / Male, 5.0 ft	35.00	32.20	29.40	26.60	23.80
CTLDVIMM-10	DVI Cable, DVI-D Single Link Male / Male, 10.0 ft	47.50	43.70	39.90	36.10	32.30
CTLDVIMM-15	DVI Cable, DVI-D Single Link Male / Male, 15.0 ft	60.00	55.20	50.40	45.60	40.80

RoHS DVI-D Dual Link Cable Assembly with Ferrites

CTLDVI-DL-MM-3	DVI Cable, DVI-D Dual Link Male / Male, 3.0 ft	35.00	32.20	29.40	26.60	23.80
CTLDVI-DL-MM-5	DVI Cable, DVI-D Dual Link Male / Male, 5.0 ft	40.00	36.80	33.60	30.40	27.20
CTLDVI-DL-MM-10	DVI Cable, DVI-D Dual Link Male / Male, 10.0 ft	52.50	48.30	44.10	39.90	35.70
CTLDVI-DL-MM-15	DVI Cable, DVI-D Dual Link Male / Male, 15.0 ft	65.00	59.80	54.60	49.40	44.20

DVI Adapter Cables - Adapt from DVI to HD15 and DFP

This series of cable assemblies allows adaptation from DVI to compatible HD15 and DFP interfaces.

RoHS DVI-A to HD15 Cable Assembly with Ferrites

CTLDVI-HD-MM-3	DVI Cable, DVI-A to HD15 Male / Male, 3.0 ft	25.00	23.00	21.00	19.00	17.00
CTLDVI-HD-MM-5	DVI Cable, DVI-A to HD15 Male / Male, 5.0 ft	26.50	24.38	22.26	20.14	18.02
CTLDVI-HD-MM-10	DVI Cable, DVI-A to HD15 Male / Male, 10.0 ft	30.25	27.83	25.41	22.99	20.57
CTLDVI-HD-MM-15	DVI Cable, DVI-A to HD15 Male / Male, 15.0 ft	34.00	31.28	28.56	25.84	23.12

RoHS DVI-D to DFP Cable Assembly with Ferrites

CTLDVIMR-3	DVI Cable, DVI-D to DFP Male / Male, 3.0 ft	20.00	18.40	16.80	15.20	13.60
CTLDVIMR-5	DVI Cable, DVI-D to DFP Male / Male, 5.0 ft	21.50	19.78	18.06	16.34	14.62
CTLDVIMR-10	DVI Cable, DVI-D to DFP Male / Male, 10.0 ft	25.25	23.23	21.21	19.19	17.17
CTLDVIMR-15	DVI Cable, DVI-D to DFP Male / Male, 15.0 ft	29.00	26.68	24.36	22.04	19.72

DVI KVM (Keyboard, Video, Mouse) Cables - Mini DIN 6 Connectors

This series of KVM cables is offered transitioning the video from DVI to HD15. Both male to male and male to female configurations are available.

RoHS DVI / HD15 KVM Cable Assembly Combine DVI-A with HD15 + 2 Mini DIN 6 Connectors

CTLDVIKVM-2	DVI KVM Cable, DVI-A to HD15 + 2 Mini DIN 6 Male / Male, 2.0m	40.00	36.80	33.60	30.40	27.20
CTLDVIKVM-3	DVI KVM Cable, DVI-A to HD15 + 2 Mini DIN 6 Male / Male, 3.0m	45.00	41.40	37.80	34.20	30.60
CTLDVIKVM-5	DVI KVM Cable, DVI-A to HD15 + 2 Mini DIN 6 Male / Male, 5.0m	55.00	50.60	46.20	41.80	37.40
CTLDVIKVMF-2	DVI KVM Cable, DVI-A to HD15 + 2 Mini DIN 6 Male / Female, 2.0m	40.00	36.80	33.60	30.40	27.20
CTLDVIKVMF-3	DVI KVM Cable, DVI-A to HD15 + 2 Mini DIN 6 Male / Female, 3.0m	45.00	41.40	37.80	34.20	30.60
CTLDVIKVMF-5	DVI KVM Cable, DVI-A to HD15 + 2 Mini DIN 6 Male / Female, 5.0m	55.00	50.60	46.20	41.80	37.40



Tip

What is the difference between DVI Single Link and Dual Link?

DVI dual link, as the name implies, has more conductors than the DVI single link for transmitting signal. Single link DVI supports a maximum bandwidth of 165 MHz (1920 x 1080 at 60 Hz, 1280 x 1024 at 85 Hz) and utilizes 18 of the 24 available pins. Dual link DVI utilizes all 24 available pins and supports 2x 165 MHz maximum bandwidth (2048 x 1536 at 60 Hz, 1920 x 1080 at 85 Hz).

DVI Single Link



DVI Dual Link



CTLDVI-ISL-MM
CTLDVI-I-MM
CTLDVIMM
CTLDVI-DL-MM

CTLDVI-HD-MM

CTLDVIMR

Did you know...

DVI-A cables can be used with DVI-I interfaces/cables?

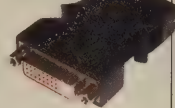


CTLDVIKVM



Same day shipping

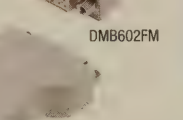
Orders placed before 4:00 EST ship the same day.

DMB600FM
(Front View)DMB600FM
(Rear View)

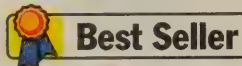
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DMB602FM



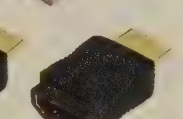
DMB603MF

**Best Seller**

DMB605FF



HDMIMM



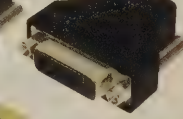
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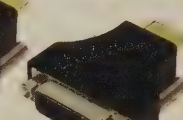
HDMIFF



DVIHDMF



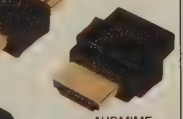
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DVIHDMM



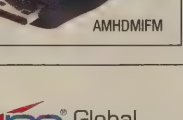
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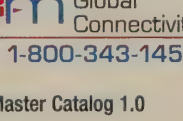
AHDMIMM



AHDMIMF



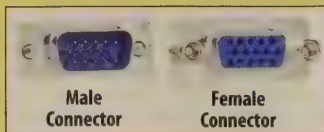
AHDMIFF



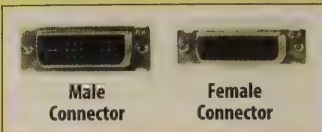
AMHDMIFM

**What are some of the most popular video interfaces in use today?****Evolution of the Video Interface**

The interface used for transmission of a video signal has evolved over the years. For a long time the HD15 (High Density 15 contact) was the most commonly used interface. With the advent of digital video new video interfaces have entered the market. Below is a brief explanation of these various video interfaces.

**HD15**

The HD15 (High Density 15 pin) is an analog only type video interface. High quality HD15 cables utilize coaxial lines for the transmission of the analog video signal.

**DVI**

DVI (Digital Video Interface) comes in three variations offering capabilities for the transmission of both analog and digital video signals. It is backward compatible with HD15 for legacy analog systems.

**HDMI**

HDMI (High Definition Multimedia Interface) is the latest innovation in digital interfaces. This small form factor interface features an all digital transmission of both video as well as audio signals. It is backward compatible with DVI for the digital video signal only.

Item #	Description	1-9	10-24	25-99	100-249	250-499
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RoHS DVI Digital Video Molded Adapters

These fully molded adapters provide transition from DVI to both VGA (HD15) and DFP interfaces. Compact in size these adapters are very useful in dealing with difficult interconnection problems.

DMB600FM	DVI Adapter, DVI-D Female / DFP Male	14.95	13.75	12.56	11.36	10.17
DMB601MF	DVI Adapter, DVI-A Male / HD15 Female	9.00	8.28	7.56	6.84	6.12
DMB602FM	DVI Adapter, DVI-A Female / HD15 Male	12.50	11.50	10.50	9.50	8.50
DMB603MF	DVI Adapter, DVI-D Male / DVI-I Female	16.00	14.72	13.44	12.16	10.88

RoHS DVI Female to Female Feed-thru Bulkhead Adapter

This fully populated DVI female bulkhead adapter is compatible with DVI-I Single/Dual Link, DVI-D Single/Dual Link and DVI-A male connectors and is bulkhead mountable to allow coupling of two DVI cables through a bulkhead.

DMB605FF	DVI Bulkhead Adapter, Female / Female	14.75	13.28	11.80	10.33	8.85
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RoHS HDMI (High Definition Multimedia Interface) Adapters

This series of HDMI adapters is offered in male-male, male-female and female-female gender configurations covering all your HDMI connection applications from gender changing to panel mount feed-thrus. All adapters are fully molded and compact in size for durability and usefulness in tight fit situations.

HDMIMM	HDMI Adapter, Male / Male	10.85	9.98	9.11	8.25	7.38
HDMIFM	HDMI Adapter, Female / Male	10.85	9.98	9.11	8.25	7.38
HDMIFF	HDMI Adapter, Female / Female	10.85	9.98	9.11	8.25	7.38

RoHS DVI (Digital Video Interface) to HDMI (High Definition Multimedia Interface) Adapters

This series of adapters utilizes two of the most commonly used digital video interfaces of DVI and HDMI. Offered in various gender combinations to address multiple interface conversion applications. Fully molded and compact in size for durability and usefulness in tight fit situations.

DVIHDMF	Digital Video Adapter, DVI-D Dual Link Male / HDMI Female (Panel Mount)	9.25	8.51	7.77	7.03	6.29
DVIHDFM	Digital Video Adapter, DVI-D Dual Link Female / HDMI Female	9.25	8.51	7.77	7.03	6.29
DVIHDMM	Digital Video Adapter, DVI-D Dual Link Male / HDMI Male	9.25	8.51	7.77	7.03	6.29
DVIHDFM	Digital Video Adapter, DVI-D Dual Link Female / HDMI Male	9.25	8.51	7.77	7.03	6.29

RoHS HDMI (High Definition Multimedia Interface) Inline Adapters and Kit

L-com's Inline HDMI adapter series offers many gender combinations for all your HDMI connectivity applications. Adapter styles include male to male, male to female, female to female and a handy adapter kit which includes all three adapters. All adapters are fully molded and compact in size for durability and ease of use in tight fit situations.

AHDMIMM	HDMI Adapter, Inline Male / Male	7.90	7.11	6.32	5.53	4.74
AHDMIMF	HDMI Adapter, Inline Male / Female	7.90	7.11	6.32	5.53	4.74
AHDMIFF	HDMI Adapter, Inline Female / Female	7.90	7.11	6.32	5.53	4.74
AHDMI-KIT	HDMI Adapter Kit, One Each of 3 Above	19.75	18.56	17.38	16.20	15.01

RoHS HDMI to Mini HDMI Inline Adapter

L-com's AMHDMIFM HDMI to Mini HDMI adapter is perfect for connecting to Mini HDMI peripherals and cable assemblies. This quality constructed HDMI to Mini HDMI adapter is fully molded and designed for inline use.

AMHDMIFM	HDMI Adapter, HDMI Female / Mini HDMI Male	10.50	9.87	9.24	8.61	7.98
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**What are the major digital interfaces?**

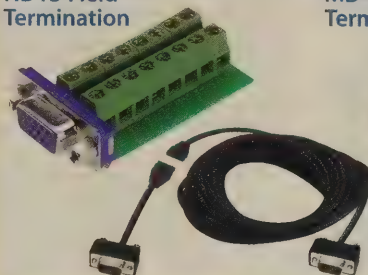
Currently there are four major digital video interfaces controlled by different standards groups and each with its own strengths and weaknesses. This chart is a comparison of these interfaces.

	EVC (Enhanced Video Connector) or P&D (Plug & Display)	DP (Display Port)	DVI (Digital Video Interface)	HDMI (High Definition Multimedia Interface)
Standards Group	VESA (Video Electronics Standards Association)	VESA (Video Electronics Standards Association)	DDWG (Digital Display Work Group)	HDMI Founders (Consortium of leading consumer electronics manufacturers)
Maximum Channels	3	8	6 (Dual Link)	8
Maximum Resolution	SXGA (1280 x 1024)	1080p	QXGA (2048 x 1536)	HDTV 720P and 1080P
Analog / Digital Combination	P&D (30 + 4 Pin) Yes	No	DVI-I (24 + 4 Pin) Yes	No
Digital / Audio	No	Yes	No	Yes

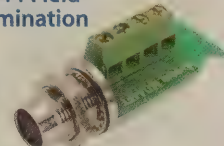
Field Installation Products

Often times the use of finished cable assemblies is simply not possible due to space limitations of existing installation conditions. In these cases, L-com's offering of field friendly products are the perfect solution. Our terminal block HD15 and MD4 products allow termination of SVGA and S-Video lines without the use of any special tools and our SVGA low profile disconnect series allow cable routing through conduit as small as 3/4 inch. These products will solve your difficult field installation problems.

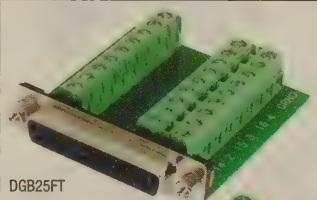
HD15 Field Termination



MD44 Field Termination



SVGA, Low Profile Disconnect



DGB25FT

DGBH15FT

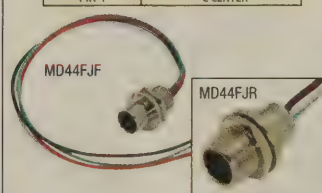
DGBH15FT PINOUT TABLE		
PIN	SIGNAL	WIRE
1	Red	Coax CC
2	Green	Coax CC
3	Blue	Coax CC
4	ID BIT 2	TP 1
5	Ground	TP 1
6	Red Shield	Coax Shield
7	Green Shield	Coax Shield
8	Blue Shield	Coax Shield
9	DDV +5V	Cond 1
10	Sync Rtn	TP 3/4
11	ID BIT 0	TP 2
12	ID BIT 1	TP 2
13	Horiz Sync	Cond 2
14	Vert Sync	TP 3
15	ID BIT 3	TP 4
16	Shell	Drain Wire

Pinout table is included with instruction sheet for the DGBH15FT



MD44FT

MD44FT WIRING TABLE	
DIN-4	TERMINAL BLOCK
PIN 1	Y SHIELD
PIN 2	C SHIELD
PIN 3	Y CENTER
PIN 4	C CENTER



MD44FJF

MD44FJR

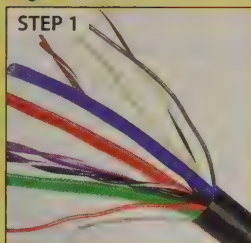
Item #	Description	1-9	10-24	25-99	100-249	250-499
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RoHS DB9, DB25 or HD15 Female Connector for Field Termination - Panel Mountable

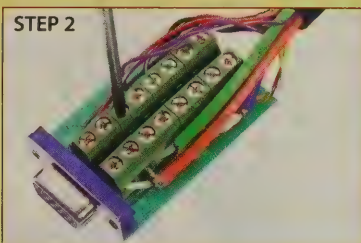
These field termination female connectors provide an easy and convenient way to perform field termination of any DB9, DB25 or HD15 cable. Separate connection points are provided for all positions of the connector plus the ground. Terminal block design with set screws provides reliable electrical connections without special tools. The terminal block area is clearly marked making proper termination virtually foolproof. Panel mountable for thickness up to 0.062".

DGB9FT	DB9 Female Connector for Field Termination	8.25	7.76	7.26	6.77	6.27
DGB25FT	DB25 Female Connector for Field Termination	12.00	11.28	10.56	9.84	9.12
DGBH15FT	SVGA HD15 Female Connector for Field Termination	10.00	9.40	8.80	8.20	7.60

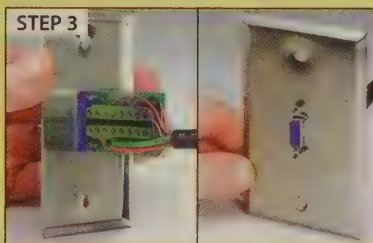
Tip How to perform a field installation of a DGBH15FT HD15 (SVGA) jack



Prepare bulk cable by exposing coax and conductor lines as shown.



Insert coax center conductor and shield as well as conductors into appropriate terminal slot as indicated in the supplied wiring diagram. Tighten the setscrews.



Attach the completed assembly to the mounting surface.

RoHS Mini DIN 4 - S-Video Jack for Field Termination

The MD44FT field termination Mini DIN 4 female jack offers a quick and easy field termination using common tools. Terminal blocks with set screws ensure reliable electrical connections. The terminal block area is clearly marked making field termination virtually foolproof. This unit is designed to fit common .5" circular or D style openings. The undercut PCB area provides a convenient area to secure a cable tie wrap resulting in a neat dressing for the terminated cable. Custom configurations will be considered with modest minimums.

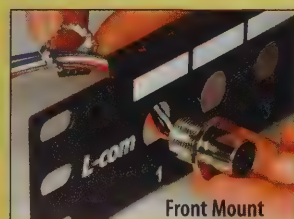
MD44FT	Mini DIN 4 Female Field Termination Jack	6.75	6.21	5.67	5.13	4.59
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RoHS Mini DIN Bulkhead Jack to Flying Leads

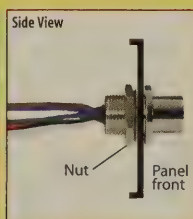
Machined adapters utilize 4, 6 or 8 26 AWG color coded wires for chassis termination.

MD44FJF	Mini DIN 4 Bulkhead Jack / Leads, Front Mount	9.35	8.60	7.85	7.11	6.36
MD44FJR	Mini DIN 4 Bulkhead Jack / Leads, Rear Mount	9.35	8.60	7.85	7.11	6.36

Tip Installation of Mini DIN bulkhead adapter styles



Front Mount



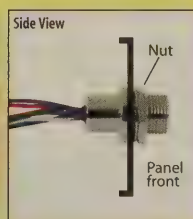
Nut

Panel front

Mount adapter from the front of panel, secure threads/nut from the back of the panel.



Rear Mount



Nut

Panel front

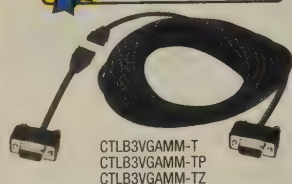
Mount adapter from the rear of panel, secure threads/nut from the front of the panel.

Connector reference chart

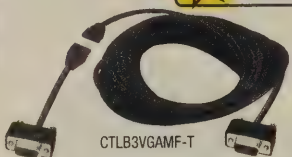
A handy listing of popular connectors.

L-com.com/ConnectorChart

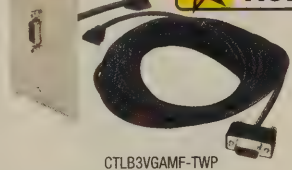
Best Seller



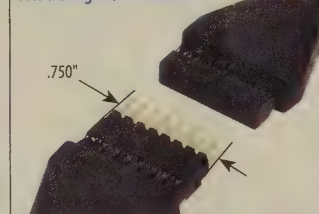
New



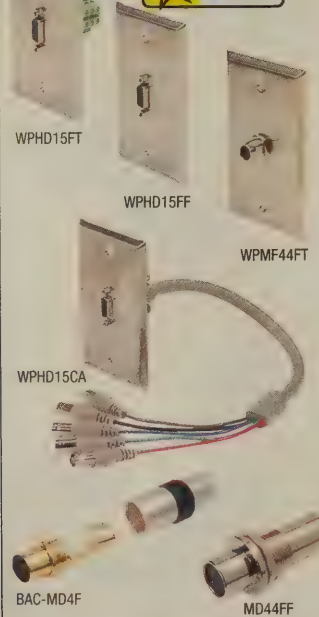
New



Fits through 3/4" conduit



New



Item #	Description	#Coax	1-9	10-24	25-99	100-249	250-499
RoHS SVGA Cables with Low Profile Disconnect Feature - HD15 Male to HD15 Male or HD15 Female							
Now there is a solution to your difficult installation problems. A fully populated DDC compliant assembly with HD15 male/male or male/female connectors utilizing our Super Thin cable, reversible hardware plus a low profile break connector. The low profile break connector's small size (.75" wide) allows routing through 3/4" conduit and through tight spaces that would not accommodate the size of a HD15 connector. Color: Black.							
CTLB3VGAMM-15T	Super Thin SVGA Cable, HD15 Male / Male, 15.0 ft	3	70.00	63.00	56.00	49.00	42.00
CTLB3VGAMM-20T	Super Thin SVGA Cable, HD15 Male / Male, 20.0 ft	3	80.00	72.00	64.00	56.00	48.00
CTLB3VGAMM-25T	Super Thin SVGA Cable, HD15 Male / Male, 25.0 ft	3	90.00	81.00	72.00	63.00	54.00
CTLB3VGAMM-50T	Super Thin SVGA Cable, HD15 Male / Male, 50.0 ft	3	140.00	126.00	112.00	98.00	84.00
CTLB3VGAMM-75T	Super Thin SVGA Cable, HD15 Male / Male, 75.0 ft	3	190.00	171.00	152.00	133.00	114.00
CTLB3VGAMF-15T	Super Thin SVGA Cable, HD15 Male / Female, 15.0 ft	3	70.00	63.00	56.00	49.00	42.00
CTLB3VGAMF-20T	Super Thin SVGA Cable, HD15 Male / Female, 20.0 ft	3	80.00	72.00	64.00	56.00	48.00
CTLB3VGAMF-25T	Super Thin SVGA Cable, HD15 Male / Female, 25.0 ft	3	90.00	81.00	72.00	63.00	54.00
CTLB3VGAMF-50T	Super Thin SVGA Cable, HD15 Male / Female, 50.0 ft	3	140.00	126.00	112.00	98.00	84.00
CTLB3VGAMF-75T	Super Thin SVGA Cable, HD15 Male / Female, 75.0 ft	3	190.00	171.00	152.00	133.00	114.00

RoHS Plenum Jacket SVGA Cables with Low Profile Disconnect Feature - HD15 Male to HD15 Male

This series is identical to our SVGA cables with one important exception, the outer jacket is made from CMP grade plenum material for applications where fire resistance and low smoke characteristics are critical. Color: Black.

CTLB3VGAMM-15TP	Super Thin Plenum SVGA Cable, HD15 Male / Male, 15.0 ft	3	225.00	220.50	216.00	211.50	207.00
CTLB3VGAMM-20TP	Super Thin Plenum SVGA Cable, HD15 Male / Male, 20.0 ft	3	275.00	269.50	264.00	258.50	253.00
CTLB3VGAMM-25TP	Super Thin Plenum SVGA Cable, HD15 Male / Male, 25.0 ft	3	325.00	318.50	312.00	305.50	299.00
CTLB3VGAMM-50TP	Super Thin Plenum SVGA Cable, HD15 Male / Male, 50.0 ft	3	575.00	563.50	552.00	540.50	529.00
CTLB3VGAMM-75TP	Super Thin Plenum SVGA Cable, HD15 Male / Male, 75.0 ft	3	825.00	808.50	792.00	775.50	759.00

RoHS LSZH Jacket SVGA Cables with Low Profile Disconnect Feature - HD15 Male to HD15 Male

This series features a fully populated DDC compliant assembly with (2) low profile HD15 male connectors and our low smoke zero halogen Super Thin cable. An additional feature is our unique user defined mounting hardware plus a low profile break connector which allows routing through 3/4" conduit and other tight spaces. Offered in standard lengths of 15, 20, 25, 50 and 75 feet with a 1 foot lead in length to the low profile connector.

CTLB3VGAMM-15TZ	Super Thin LSZH SVGA Cable, HD15 Male / Male, 15.0 ft	3	85.00	79.90	74.80	69.70	64.60
CTLB3VGAMM-20TZ	Super Thin LSZH SVGA Cable, HD15 Male / Male, 20.0 ft	3	100.00	94.00	88.00	82.00	76.00
CTLB3VGAMM-25TZ	Super Thin LSZH SVGA Cable, HD15 Male / Male, 25.0 ft	3	115.00	108.10	101.20	94.30	87.40
CTLB3VGAMM-50TZ	Super Thin LSZH SVGA Cable, HD15 Male / Male, 50.0 ft	3	190.00	178.60	167.20	155.80	144.40
CTLB3VGAMM-75TZ	Super Thin LSZH SVGA Cable, HD15 Male / Male, 75.0 ft	3	265.00	249.10	233.20	217.30	201.40

RoHS SVGA Cables with Low Profile Disconnect Feature - HD15 Male to HD15 Female and Wall Plate

This cable kit series features a fully populated DDC compliant assembly with two low profile HD15 connectors (one male and one female) and our Super Thin cable. An additional feature is our unique user defined mounting hardware plus a low profile break connector. The low profile disconnect connector's small size allows routing through 3/4" conduit and other tight spaces that would not accommodate the size of a regular HD15 connector. This kit also includes a stainless steel HD15 wall plate to complete your installation. Available in standard lengths of 15, 20, 25, 50 and 75 feet with a 1 foot lead in length to the low profile connector.

CTLB3VGAMF-15TWP	Super Thin SVGA Cable, HD15 Male / Female and Wall Plate, 15.0 ft	3	72.00	64.80	57.60	50.40	43.20
CTLB3VGAMF-20TWP	Super Thin SVGA Cable, HD15 Male / Female and Wall Plate, 20.0 ft	3	82.00	73.80	65.60	57.40	49.20
CTLB3VGAMF-25TWP	Super Thin SVGA Cable, HD15 Male / Female and Wall Plate, 25.0 ft	3	92.00	82.80	73.60	64.40	55.20
CTLB3VGAMF-50TWP	Super Thin SVGA Cable, HD15 Male / Female and Wall Plate, 50.0 ft	3	142.00	127.80	113.60	99.40	85.20
CTLB3VGAMF-75TWP	Super Thin SVGA Cable, HD15 Male / Female and Wall Plate, 75.0 ft	3	192.00	172.80	153.60	134.40	115.20

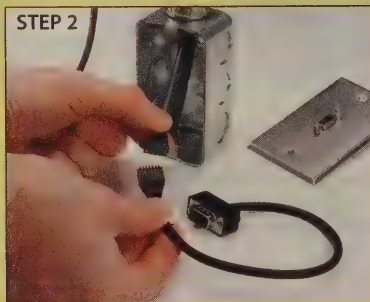
Use the CTLB series cable for running through 3/4" conduit

See The Video

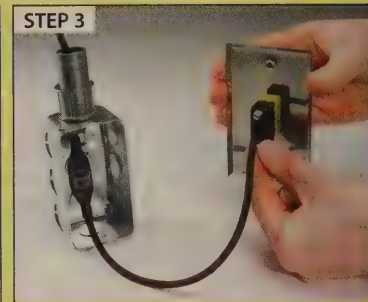
www.L-com.com/videos/A04



Feed socket end through conduit (3/4" min. dia.) into destination outlet.



Slip shrinkable tubing onto cable, mate the breakaway connector matching alignment arrows and secure.



Attach pre-terminated HD15 connector to faceplate and attach to outlet.

RoHS Video Wall Plate Assemblies

Combining our innovative field termination style HD15 and Mini DIN 4 (SVHS) as well as a HD15 female pigtail with our stainless steel wall plates L-com now offers a convenient series of preassembled wall plate assemblies for your field installation applications.

WPHD15FT	Wall Plate Assembly, HD15 Female	13.50	12.69	11.88	11.07	10.26
WPHD15FF	Wall Plate Assembly, HD15 Female	12.70	11.94	11.18	10.41	9.65
WPMF44FT	Wall Plate Assembly, MD44 (S-Video) Female	10.00	9.40	8.80	8.20	7.60
WPHD15CA	Wall Plate Assembly, HD15 Female to 5 BNC Female 2 ft Pigtail	27.50	25.85	24.20	22.55	20.90

Solder Type Mini DIN 4 Connectors with Metal Cover For SVHS Assemblies

BAC-MD4M	SVHS Mini DIN 4 Connector, Male	3.95	3.63	3.32	3.00	2.69
BAC-MD4F	SVHS Mini DIN 4 Connector, Female	4.15	3.82	3.49	3.15	2.82

RoHS Bulkhead Feed-Thru Adapter for SVHS Mini DIN 4 - Fits 1/2" Diameter D-hole

MD44FF	Bulkhead Feed-Thru Adapter, Female / Female	8.35	7.68	7.01	6.35	5.68
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Running CTLB cable through 3/4" conduit

See the free video tip and more at

L-com.com/Videos/A04



Item #	Description	1-9	10-24	25-99	100-249	250-499
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RoHS Bulk SVGA Cable - Double Shielded with (3) 75 Ohm Coaxial Lines Plus Conductors

This is the same bulk cable used in our premium grade SVGA assemblies. The three coaxial lines are double shielded enhancing video performance. In addition the bulk cable construction includes four 26 AWG twisted pairs and two 26 AWG conductors. Used in conjunction with our D-Sub connectors you can now fabricate your own SVGA cable assemblies. Color: Black.

CTL3VGA-250	SVGA Bulk Cable, 250.0 ft	391.99	384.15	376.31	368.47	360.63
CTL3VGA-500	SVGA Bulk Cable, 500.0 ft	779.00	763.42	747.84	732.26	716.68

RoHS Bulk Super Thin SVGA Cable - Double Shielded - (3) 75 Ohm Coaxial Lines Plus Conductors

This is the same bulk cable used in our Thinline series SVGA assemblies. The three coaxial lines are double shielded enhancing video performance. In addition the bulk cable construction includes nine stranded 30 AWG conductors. Used in conjunction with our D-Sub connectors you can now fabricate your own Super Thin SVGA cable assemblies.

CTL3VGA-250T	Super Thin SVGA Bulk Cable, 250.0 ft	369.99	362.59	355.19	347.79	340.39
CTL3VGA-500T	Super Thin SVGA Bulk Cable, 500.0 ft	715.00	700.70	686.40	672.10	657.80

SVHS Bulk Cable - Dual 75 Ohm Coaxials - Hi-Flex Round PVC Jacket

R1088-100	Bulk S-Video Cable, 100.0 ft	48.99	48.01	47.03	46.05	45.07
R1088-500	Bulk S-Video Cable, 500.0 ft	259.00	253.82	248.64	243.46	238.28
R1088-1K	Bulk S-Video Cable, 1000.0 ft	503.00	492.94	482.88	472.82	462.76

Enhanced Video Connector (EVC or P&D) Cable Assemblies

The Video Electronics Standards Association (VESA) established a standard for advanced high bandwidth/high resolution monitors. It's called EVC, which stands for Enhanced Video Connector. Also known as P&D (Plug & Display), this standard was designed for higher bandwidth video transmission exceeding 2GHz. It also utilizes connections for multimedia devices via Universal Serial Bus (USB), IEEE-1394 and Display Data Channel (DDC) pins inherent in the connector.

RoHS EVC Male to EVC Male, Fully Populated, Molded Cable Assembly

CTLEVCMM-3	EVC Cable, Male / Male, 3.0 ft	150.00	141.00	132.00	123.00	114.00
CTLEVCMM-5	EVC Cable, Male / Male, 5.0 ft	158.00	148.52	139.04	129.56	120.08
CTLEVCMM-10	EVC Cable, Male / Male, 10.0 ft	178.00	167.32	156.64	145.96	135.28
CTLEVCMM-15	EVC Cable, Male / Male, 15.0 ft	198.00	186.12	174.24	162.36	150.48
CTLEVCMM-25	EVC Cable, Male / Male, 25.0 ft	235.00	220.90	206.80	192.70	178.60
CTLEVCMM-50	EVC Cable, Male / Male, 50.0 ft	335.00	314.90	294.80	274.70	254.60

RoHS EVC Male to 5 BNC, 5 Coaxial, Molded Breakout Assembly

CTLEVCB-3	EVC Cable, Male / 5 BNC, 3.0 ft	65.25	61.33	57.42	53.51	49.59
CTLEVCB-5	EVC Cable, Male / 5 BNC, 5.0 ft	68.75	64.63	60.50	56.38	52.25
CTLEVCB-10	EVC Cable, Male / 5 BNC, 10.0 ft	77.50	72.85	68.20	63.55	58.90
CTLEVCB-15	EVC Cable, Male / 5 BNC, 15.0 ft	86.25	81.07	75.90	70.72	65.55
CTLEVCB-25	EVC Cable, Male / 5 BNC, 25.0 ft	103.75	97.53	91.30	85.07	78.85
CTLEVCB-50	EVC Cable, Male / 5 BNC, 50.0 ft	147.50	138.65	129.80	120.95	112.10

RoHS EVC Male to VGA Male, Molded Cable Assembly

CTLEVCM-5	EVC Cable, Male / HD15 Male, 5.0 ft	52.50	49.35	46.20	43.05	39.90
CTLEVCM-10	EVC Cable, Male / HD15 Male, 10.0 ft	60.00	56.40	52.80	49.20	45.60
CTLEVCM-15	EVC Cable, Male / HD15 Male, 15.0 ft	67.50	63.45	59.40	55.35	51.30
CTLEVCM-25	EVC Cable, Male / HD15 Male, 25.0 ft	82.50	77.55	72.60	67.65	62.70
CTLEVCM-50	EVC Cable, Male / HD15 Male, 50.0 ft	120.00	112.80	105.60	98.40	91.20

RoHS EVC Male to VGA Female, Molded Cable Assembly

CTLEVCF-3	EVC Cable, Male / HD15 Female, 3.0 ft	49.50	46.53	43.56	40.59	37.62
CTLEVCF-5	EVC Cable, Male / HD15 Female, 5.0 ft	52.50	49.35	46.20	43.05	39.90
CTLEVCF-10	EVC Cable, Male / HD15 Female, 10.0 ft	60.00	56.40	52.80	49.20	45.60
CTLEVCF-15	EVC Cable, Male / HD15 Female, 15.0 ft	67.50	63.45	59.40	55.35	51.30
CTLEVCF-25	EVC Cable, Male / HD15 Female, 25.0 ft	82.50	77.55	72.60	67.65	62.70
CTLEVCF-50	EVC Cable, Male / HD15 Female, 50.0 ft	120.00	112.80	105.60	98.40	91.20

EVC Receptacle

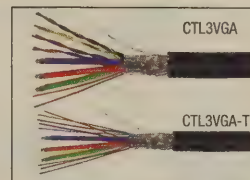
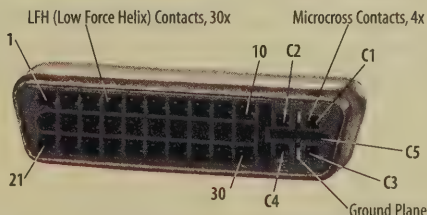
EVC interface contacts are separated into two groups. One group of 30 Low Force Helix (LFH®) contacts accommodate power, ground, digital and low frequency analog

signals. The second set of 4 Microcross® 75 Ohm contacts are for high frequency analog video signals. The interface is shielded and polarized.

Pin and Signal Designation

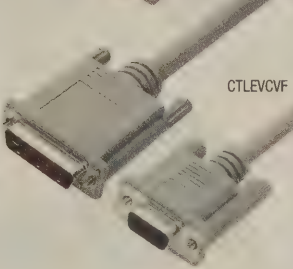
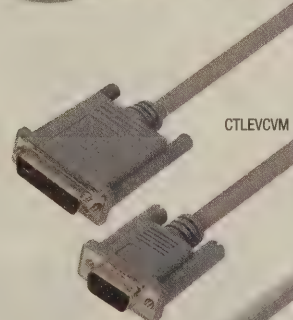
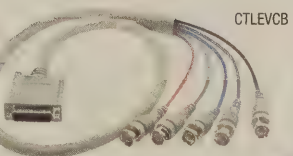
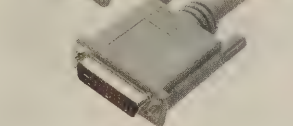
*Pins in column 8 are recessed in the plug so as to provide for proper power/ground sequencing

1	TMDS Data 2 (+)	10	1394 pair A, data (+)	19	1394 Vg	29	1394 pair B, clock +
2	TMDS Data 2 (-)	11	TMDS Data 1 (+)	20	1394 Vp	30	1394 pair B, clock -
3	TMDS Data 2 Return	12	TMDS Data 1 (-)	21	TMDS Data 0 (-)	C1	Red Video
4	Sync Return	13	TMDS Data 1 Return	22	TMDS Data 0 (+)	C2	Green Video
5	Horizontal sync (TTL)	14	TMDS Clock (+)	23	TMDS Data 0 Return	C3	Pixel Clock
6	Vertical sync (TTL)	15	TMDS Clock (-)	24	Stereo sync (TTL)	C4	Blue Video
7	TMDS Clock Return	16	USB data +	25	DDC return	C5	Clock Rtn
8*	Charging power input, (+)	17	USB data -	26	DDC data (SDA)		
9	1394 pair A, data (-)	18*	1394 shield/charging power input -	27	DDC, clock (SCL)		
				28*	+5 VDC		



Did you know...

L-com is a member of VESA (Video Electronics Standards Association)?



For more useful information go to...
www.L-com.com/Resources

L-com Global Connectivity



Item #	Description	1-9	10-24	25-99	100-249	250-499
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Adapters and Gender Changers

It is often necessary to interconnect between different interface types or to change the gender of an interface to allow attachment of an extension cable. We offer a wide assortment of adapters and gender changers covering commonly used interfaces such as HD15, Mini DIN 5 and 6, DB9, DVI and HDMI.

✓RoHS PS/2 Monitor Adapter - High-Density DB15 to DB9 Connector Interfaces RGB Monitors

DMA100MM	Monitor Adapter, HD15M / DB9M Slimline PS2 to IBM	7.55	6.80	6.04	5.28	4.53
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✓RoHS HD15 Gender Changers Allow Proper Mating of VGA Cables and Monitor Inputs

DMB520M	Gender Changer, HD15 Male / Male	9.95	9.15	8.36	7.56	6.77
DMB521F	Gender Changer, HD15 Female / Female	9.95	9.15	8.36	7.56	6.77

✓RoHS HD15 Slimline Gender Changer/Adapters - Fully Populated

DGBH15F	Slimline Gender Changer, HD15 Female / Female	7.95	7.16	6.36	5.57	4.77
DGBH15M	Slimline Gender Changer, HD15 Male / Male	7.95	7.16	6.36	5.57	4.77
DGBH15MF	Slimline Socket Saver, HD15 Male / Female	7.95	7.16	6.36	5.57	4.77

✓RoHS Slimline Gender Changer/Adapters - with Pin 9 Missing to Interface VGA Monitors

DGBV15F	Slimline Gender Changer, HD15 Female / Female, No Pin 9	7.95	7.16	6.36	5.57	4.77
DGBV15M	Slimline Gender Changer, HD15 Male / Male, No Pin 9	7.95	7.16	6.36	5.57	4.77
DGBV15MF	Slimline Socket Saver, HD15 Male / Female, No Pin 9	7.95	7.16	6.36	5.57	4.77

✓RoHS PS/2 Keyboard Adapters - Use to Interface AT Keyboard with IBM PS/2 Computer

DMB530	Keyboard Adapter, Mini DIN 6M / DIN 5F	5.95	5.47	5.00	4.52	4.05
DMB530R	Keyboard Adapter, Mini DIN 6F / DIN 5M	5.95	5.47	5.00	4.52	4.05
K23-645	Keyboard Adapter, DB9F / Mini DIN 6F, (Generic, standard mice)	6.95	6.39	5.84	5.28	4.73
K23-646	Keyboard Adapter, DB9M / Mini DIN 6M, (Generic, standard mice)	6.95	6.39	5.84	5.28	4.73
K23-647	Keyboard Adapter, DB9F / Mini DIN 6F, (Enhanced, 3 button mice)	6.95	6.39	5.84	5.28	4.73

✓RoHS DVI Digital Video Molded Adapters

These fully molded adapters provide transition from DVI to both VGA (HD15) and DFP interfaces. Compact in size these adapters are very useful in dealing with difficult interconnection problems.

DMB600FM	DVI Adapter, DVI-D Female / DFP Male	14.95	13.75	12.56	11.36	10.17
DMB601MF	DVI Adapter, DVI-A Male / HD15 Female	9.00	8.28	7.56	6.84	6.12
DMB602FM	DVI Adapter, DVI-A Female / HD15 Male	12.50	11.50	10.50	9.50	8.50
DMB603MF	DVI Adapter, DVI-D Male / DVI-I Female	16.00	14.72	13.44	12.16	10.88

✓RoHS DVI Female to Female Feed-thru Bulkhead Adapter

This fully populated DVI Female Bulkhead Adapter is compatible with DVI-I Single/Dual Link, DVI-D Single/Dual Link and DVI-A male connectors and are bulkhead mountable to allow coupling of two DVI cables through a bulkhead.

DMB605FF	DVI Bulkhead Adapter, Female / Female	14.75	13.28	11.80	10.33	8.85
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✓RoHS HDMI (High Definition Multimedia Interface) Adapters

This series of HDMI adapters is offered in male to male, male to female and female to female gender configurations covering all your HDMI connection applications from gender changing to panel mount feed-thrus. All adapters are fully molded and compact in size for durability and usefulness in tight fit situations.

HDIMMM	HDMI Adapter, Male / Male	10.85	9.98	9.11	8.25	7.38
HDIMFM	HDMI Adapter, Female / Male	10.85	9.98	9.11	8.25	7.38
HDIMFF	HDMI Adapter, Female / Female	10.85	9.98	9.11	8.25	7.38

✓RoHS DVI (Digital Video Interface) to HDMI (High Definition Multimedia Interface) Adapters

This series of adapters utilizes two of the most commonly used digital video interfaces of DVI and HDMI. Offered in various gender combinations to address multiple interface conversion applications. Fully molded and compact in size for durability and usefulness in tight fit situations.

DVIHDMF	Digital Video Adapter, DVI-D Dual Link Male / HDMI Female	9.25	8.51	7.77	7.03	6.29
DVIHDF	Digital Video Adapter, DVI-D Dual Link Female / HDMI Female	9.25	8.51	7.77	7.03	6.29
DVIHDMM	Digital Video Adapter, DVI-D Dual Link Male / HDMI Male	9.25	8.51	7.77	7.03	6.29
DVIHDFM	Digital Video Adapter, DVI-D Dual Link Female / HDMI Male	9.25	8.51	7.77	7.03	6.29

✓RoHS HD15 Low Profile Right Angle Adapters - Molded and Fully Shielded

Connecting cables in tight spaces can be a problem in many applications. These low profile adapters solve this problem by allowing cables to be connected at a 90 degree angle. Two versions are available to allow cables to exit in opposite directions. Adapters are male to female, fully shielded and are overmolded with Gray PVC. Mating hardware is reversible allowing for use in virtually any application.

DG90H15MF1	Low Profile Right Angle Adapter, HD15 Male / Female, Cable Exit 1	8.00	7.52	7.04	6.56	6.08
DG90H15MF2	Low Profile Right Angle Adapter, HD15 Male / Female, Cable Exit 2	8.00	7.52	7.04	6.56	6.08

HD15 Switch Box - Made Specifically to Switch SVGA Cables, Uses Coaxial Lines

Add flexibility to your SVGA system by using our compact switch box that accepts HD15 connectors. All 15 lines are simultaneously switched. Features: built-in coaxial wiring not found in typical switch boxes and highest quality components in a shielded metal enclosure. Three female receptacles; one line in and two out. Designed to use as a stand alone or rack mounted. Three switch boxes will fit on one of our Universal (3.5" x 19") rack panels.

USP-HDB15AB	HD15 AB Switch Box, Female Connectors	89.50	84.13	78.76	73.39	68.02
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Video signal transmission

Video images are transmitted across cables in a variety of ways. From a single coaxial cable (even non coaxial cable in some cases) to the use of as many as 5 coaxial lines to transmit the video image. Basically, the more the video signal is broken down by the use of more transmission lines into individual components, the better the video image. The following is a progressive list on commonly used video signal transmission methods:



Red, Green, Blue (RGB): This method uses 3 to 5 coaxial lines with BNC style connectors or HD15 interface. The video signal is split into three primary colors, Red, Green, Blue with separate lines often used for control signals. This method produces an extremely high quality video image.

Component: Three coaxial lines are used in this method with RCA style connectors. Black and White information is carried on one coaxial line while color differential signals are carried on the two remaining coaxial lines. This method produces a very high quality video image.

S-Video (SVHS): This method utilizes two coaxial lines contained within one outer jacket with a Mini DIN 4 circular connector. One coaxial line carries the Black and White information; the second coaxial line carries all the color information. This method produces a high quality video image.

Composite: A single coaxial line with an RCA connector carries both the Black and White as well as the color signal. This method produces a relatively good quality video image.

RF Video: A single coaxial line with a Type F connector. It produces the lowest quality video image of all the interface types.

Item #	Description	#Coax	1-9	10-24	25-99	100-249	250-499
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RoHS Premium Grade Black SVGA Breakout Cables - HD15M to 5 BNC Plugs

This is our best quality VGA cable. It makes use of the most comprehensive shielding to minimize the amount of RF radiation that may escape through the cable. Five 75 Ohm miniature coaxials have a durable double shield composed of aluminum mylar and a copper braid; and another double shield composed of aluminum mylar and copper braid over the 5 coaxials. The connector shell has a full metal shell which is fully over-molded. There is just no better VGA cable made! Color: Black. **Note:** HD15 connections: Pin #1 Red, 2 Grn, 3 Blue, 13 Horiz, 14 Vert. All shields terminate to pins 5 thru 10. No connection pins 4, 9, 11, 12 and 15.

CTL5CAT-3B	SVGA Breakout Cable, HD15 Male / 5 BNC Male, 3.0 ft	5	33.65	30.96	28.27	25.57	22.88
CTL5CAT-6B	SVGA Breakout Cable, HD15 Male / 5 BNC Male, 6.0 ft	5	39.95	36.75	33.56	30.36	27.17
CTL5CAT-6BF	SVGA Breakout Cable, HD15 Male / 5 BNC Male with Ferrite, 6.0 ft	5	42.35	38.96	35.57	32.19	28.80
CTL5CAT-12B	SVGA Breakout Cable, HD15 Male / 5 BNC Male, 12.0 ft	5	52.55	48.35	44.14	39.94	35.73

RoHS Premium Grade Gray SVGA Breakout Cables - HD15M to 5 BNC Plugs

We offer five 75 Ohm Slimline coaxial cables with Male BNC terminations. They have easily identified colored cables: Red, Green, Blue and Black/White for Vertical/Horizontal use. The other end terminates to a High Density 15 pin D-Sub connector. Color: Gray. **Note:** HD15 connections: Pin #1 Red, 2 Grn, 3 Blue, 13 Horiz, 14 Vert. All shields terminate to pins 5 thru 10. No connection pins 4, 9, 11, 12 and 15.

CTL5CAT-3	SVGA Breakout Cable, HD15 Male / 5 BNC Male, 3.0 ft	5	33.65	30.96	28.27	25.57	22.88
CTL5CAT-6	SVGA Breakout Cable, HD15 Male / 5 BNC Male, 6.0 ft	5	39.95	36.75	33.56	30.36	27.17
CTL5CAT-6F	SVGA Breakout Cable, HD15 Male / 5 BNC Male with Ferrite, 6.0 ft	5	42.35	38.96	35.57	32.19	28.80

RoHS Premium Grade Gray SVGA Breakout Extension Cables - HD15M to 5 BNC Jacks

Note: HD15 connections: Pin #1 Red, 2 Grn, 3 Blue, 13 Horiz, 14 Vert. All shields terminate to pins 5 thru 10. No connection pins 4, 9, 11, 12 and 15.

CTL5CAR-1.5	SVGA Breakout Ext. Cable, HD15 Male / 5 BNC Female, 1.5 ft	5	33.65	30.96	28.27	25.57	22.88
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RoHS Premium Grade Gray SVGA Breakout Cables - DB9M to 3 BNC Plugs

Note: DB9 connections: Pin #1 Red, 2 Green, 3 Blue, 6, 7, 8 Common Wired Shields

CTL3CAD-6	SVGA Breakout Cable, DB9 Male / 3 BNC Male, 6.0 ft	3	26.60	24.47	22.34	20.22	18.09
CTL3CAD-6F	SVGA Breakout Cable, DB9 Male / 3 BNC Male with Ferrite, 6.0 ft	3	29.00	26.68	24.36	22.04	19.72

RoHS Premium Grade Gray SVGA Breakout Cables - DB9M to 4 BNC Plugs

Note: DB9 connections: Pin #1 Red, 2 Green, 3 Blue, 4 Black, 6, 7, 8 and 9 Common Wired Shields.

CTL4CAD-1.5	SVGA Breakout Cable, DB9 Male / 4 BNC Male, 1.5 ft	4	23.10	21.25	19.40	17.56	15.71
CTL4CAD-3	SVGA Breakout Cable, DB9 Male / 4 BNC Male, 3.0 ft	4	25.20	23.18	21.17	19.15	17.14
CTL4CAD-3F	SVGA Breakout Cable, DB9 Male / 4 BNC Male with Ferrite, 3.0 ft	4	27.60	25.39	23.18	20.98	18.77
CTL4CAD-6	SVGA Breakout Cable, DB9 Male / 4 BNC Male, 6.0 ft	4	29.40	27.05	24.70	22.34	19.99
CTL4CAD-6F	SVGA Breakout Cable, DB9 Male / 4 BNC Male with Ferrite, 6.0 ft	4	31.80	29.26	26.71	24.17	21.62

RoHS Premium Grade Gray SVGA Breakout Cables - DB9M to 5 BNC Plugs

We offer five 75 Ohm Slimline coaxial cables with Male BNC terminations. Color coded for easy identification: Red, Green, Blue and Black/White for Vertical/Horizontal use. The other end terminates to a male 9-pin D-Sub connector. Molded strain relief provided. Color: Gray. **Note:** DB9 connections: Pin #1 Red, 2 Grn, 3 Blue, 4 Horiz., 5 Vert. and 6-9 Common Gnd.

CTL5CAD-3	SVGA Breakout Cable, DB9 Male / 5 BNC Male, 3.0 ft	5	27.25	25.07	22.89	20.71	18.53
CTL5CAD-6	SVGA Breakout Cable, DB9 Male / 5 BNC Male, 6.0 ft	5	32.50	29.90	27.30	24.70	22.10
CTL5CAD-6F	SVGA Breakout Cable, DB9 Male / 5 BNC Male, 6.0 ft	5	34.90	32.11	29.32	26.52	23.73

RoHS Premium Grade Gray SVGA Breakout Cables - HD15M to 4 BNC Plugs

Four 75 Ohm Slimline coaxial cables with Male BNC terminations. Color coded coaxials in Red, Green and Blue for easy identification. The other end terminates to a High Density 15 pin D-Sub connector. Optionally available with built-in Ferrite on the 6 ft cable. All cables molded for long life. Color: Gray. **Note:** HD15 connections: Pin #1 Red, 2 Grn, 3 Blue, 13 Horiz. All shields terminate to common pins 5, 6, 7, 8 and 10. No connection pins 4, 9, 11, 12, 14 and 15.

CTL4CAT-3	SVGA Breakout Cable, HD15 Male / 4 BNC Male, 3.0 ft	4	28.20	25.94	23.69	21.43	19.18
CTL4CAT-6	SVGA Breakout Cable, HD15 Male / 4 BNC Male, 6.0 ft	4	32.40	29.81	27.22	24.62	22.03
CTL4CAT-6F	SVGA Breakout Cable, HD15 Male / 4 BNC Male, with Ferrite, 6.0 ft	4	34.80	32.02	29.23	26.45	23.66

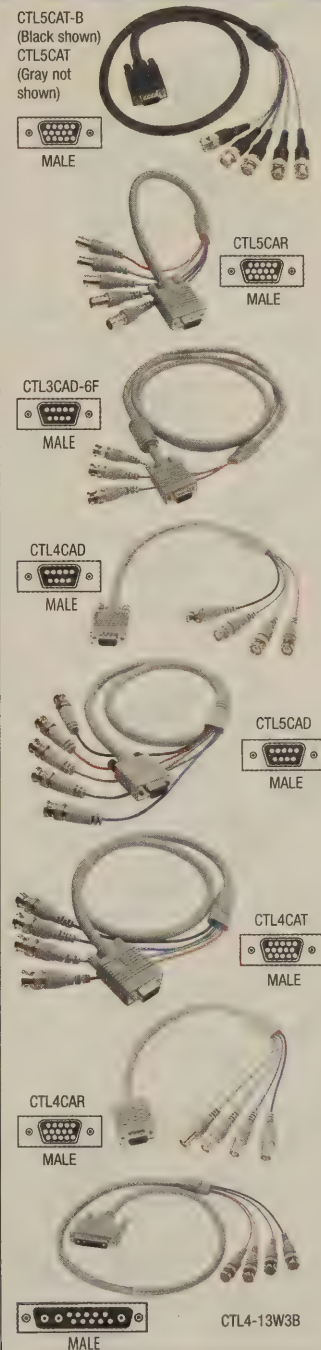
RoHS Premium Grade Gray SVGA Breakout Extension Cable - HD15M to 4 BNC Jacks

Note: HD15 connections: Pin #1 Red, 2 Grn, 3 Blue, 13 Sync. All shields terminate to pins 5 thru 10.

CTL4CAR-1.5	SVGA Breakout Ext. Cable, HD15 Male / 4 BNC Female, 1.5 ft	4	28.30	26.04	23.77	21.51	19.24
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Premium Grade 13W3 Gray VGA Breakout Cables - 13W3M to 4 BNC Plugs

CTL4-13W3B-3	13W3 Breakout Cable, 13W3 Male / 4 BNC Male, 3.0 ft	4	44.50	40.94	37.38	33.82	30.26
CTL4-13W3B-5	13W3 Breakout Cable, 13W3 Male / 4 BNC Male, 5.0 ft	4	47.50	43.70	39.90	36.10	32.30
CTL4-13W3B-10	13W3 Breakout Cable, 13W3 Male / 4 BNC Male, 10.0 ft	4	55.00	50.60	46.20	41.80	37.40
CTL4-13W3B-15	13W3 Breakout Cable, 13W3 Male / 4 BNC Male, 15.0 ft	4	62.50	57.50	52.50	47.50	42.50
CTL4-13W3B-25	13W3 Breakout Cable, 13W3 Male / 4 BNC Male, 25.0 ft	4	77.50	71.30	65.10	58.90	52.70
CTL4-13W3B-50	13W3 Breakout Cable, 13W3 Male / 4 BNC Male, 50.0 ft	4	115.00	105.80	96.60	87.40	78.20



RoHS status information

listed on every product saves you time.

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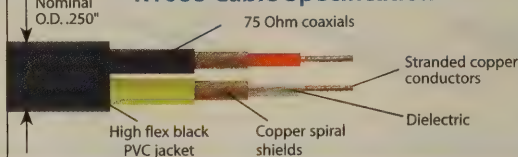


**Tip****What is S-Video (S-VHS)?**

The term S-Video is derived from the way the video signal is transmitted. In S-Video the signal is separated into two components hence the term Separate Video or S-Video. Two 75 Ohm coaxial cables and a Mini DIN 4 connector are utilized to transmit the two component signals. One of the coaxial cables carries the Luminance Signal (brightness or Y component) while the second 75 Ohm coaxial cable carries the Chrominance Signal (color or C component). By separating the video signal into two components a better quality picture is produced than composite video that utilizes one coaxial cable to transmit both signals. The term S-VHS is an acronym for Super-Video Home System.

SVHS (S-Video) Jack

Mini DIN 4

**R1088 Cable Specification**

Item #	Description	1-9	10-24	25-99	100-249	250-499
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Molded S-Video Cable Assemblies, 75 Ohm Dual Coaxial in Single Jacket

CCD234MM-1	Molded Mini DIN 4 Male / Male, 1.0 ft	5.50	5.17	4.84	4.51	4.18
CCD234MM-2	Molded Mini DIN 4 Male / Male, 2.0 ft	6.20	5.83	5.46	5.08	4.71
CCD234MM-3	Molded Mini DIN 4 Male / Male, 3.0 ft	6.90	6.49	6.07	5.66	5.24
CCD234MM-5	Molded Mini DIN 4 Male / Male, 5.0 ft	8.30	7.80	7.30	6.81	6.31
CCD234MM-7.5	Molded Mini DIN 4 Male / Male, 7.5 ft	10.05	9.45	8.84	8.24	7.64
CCD234MM-10	Molded Mini DIN 4 Male / Male, 10.0 ft	11.80	11.09	10.38	9.68	8.97
CCD234MM-20	Molded Mini DIN 4 Male / Male, 20.0 ft	18.80	17.67	16.54	15.42	14.29
CCD234MM-30	Molded Mini DIN 4 Male / Male, 30.0 ft	25.80	24.25	22.70	21.16	19.61
CCD234MM-40	Molded Mini DIN 4 Male / Male, 40.0 ft	32.80	30.83	28.86	26.90	24.93
CCD234MM-50	Molded Mini DIN 4 Male / Male, 50.0 ft	39.80	37.41	35.02	32.64	30.25
CCD234MF-1	Molded Mini DIN 4 Male / Female, 1.0 ft	5.50	5.17	4.84	4.51	4.18
CCD234MF-2	Molded Mini DIN 4 Male / Female, 2.0 ft	6.20	5.83	5.46	5.08	4.71
CCD234MF-3	Molded Mini DIN 4 Male / Female, 3.0 ft	6.90	6.49	6.07	5.66	5.24
CCD234MF-5	Molded Mini DIN 4 Male / Female, 5.0 ft	8.30	7.80	7.30	6.81	6.31
CCD234MF-7.5	Molded Mini DIN 4 Male / Female, 7.5 ft	10.05	9.45	8.84	8.24	7.64
CCD234MF-10	Molded Mini DIN 4 Male / Female, 10.0 ft	11.80	11.09	10.38	9.68	8.97
CCD234MF-20	Molded Mini DIN 4 Male / Female, 20.0 ft	18.80	17.67	16.54	15.42	14.29

Assembled S-Video Cable Assemblies, 75 Ohm Dual Coaxial in Single Jacket

CCD244MM-1	Assembled Mini DIN 4 Male / Male, 1.0 ft	13.50	12.69	11.88	11.07	10.26
CCD244MM-2	Assembled Mini DIN 4 Male / Male, 2.0 ft	14.20	13.35	12.50	11.64	10.79
CCD244MM-3	Assembled Mini DIN 4 Male / Male, 3.0 ft	14.90	14.01	13.11	12.22	11.32
CCD244MM-5	Assembled Mini DIN 4 Male / Male, 5.0 ft	16.30	15.32	14.34	13.37	12.39
CCD244MM-7.5	Assembled Mini DIN 4 Male / Male, 7.5 ft	18.05	16.97	15.88	14.80	13.72
CCD244MM-10	Assembled Mini DIN 4 Male / Male, 10.0 ft	19.80	18.61	17.42	16.24	15.05
CCD244MM-20	Assembled Mini DIN 4 Male / Male, 20.0 ft	26.80	25.19	23.58	21.98	20.37
CCD244MF-1	Assembled Mini DIN 4 Male / Female, 1.0 ft	13.50	12.69	11.88	11.07	10.26
CCD244MF-2	Assembled Mini DIN 4 Male / Female, 2.0 ft	14.20	13.35	12.50	11.64	10.79
CCD244MF-3	Assembled Mini DIN 4 Male / Female, 3.0 ft	14.90	14.01	13.11	12.22	11.32
CCD244MF-5	Assembled Mini DIN 4 Male / Female, 5.0 ft	16.30	15.32	14.34	13.37	12.39
CCD244MF-7.5	Assembled Mini DIN 4 Male / Female, 7.5 ft	18.05	16.97	15.88	14.80	13.72
CCD244MF-10	Assembled Mini DIN 4 Male / Female, 10.0 ft	19.80	18.61	17.42	16.24	15.05
CCD244MF-20	Assembled Mini DIN 4 Male / Female, 20.0 ft	26.80	25.19	23.58	21.98	20.37

Assembled S-Video Cable Assemblies - Molded Dual RCA-M, 75 Ohm Dual Coaxial Breakout Cable

CCD244MR-1	Assembled Mini DIN 4 Male / Dual RCA Male, 1.0 ft	9.55	8.60	7.64	6.69	5.73
CCD244MR-2	Assembled Mini DIN 4 Male / Dual RCA Male, 2.0 ft	10.35	9.32	8.28	7.24	6.21
CCD244MR-3	Assembled Mini DIN 4 Male / Dual RCA Male, 3.0 ft	11.15	10.04	8.92	7.81	6.69
CCD244MR-5	Assembled Mini DIN 4 Male / Dual RCA Male, 5.0 ft	12.75	11.48	10.20	8.92	7.65
CCD244MR-7.5	Assembled Mini DIN 4 Male / Dual RCA Male, 7.5 ft	14.75	13.28	11.80	10.33	8.85
CCD244MR-10	Assembled Mini DIN 4 Male / Dual RCA Male, 10.0 ft	16.75	15.08	13.40	11.73	10.05
CCD244MR-20	Assembled Mini DIN 4 Male / Dual RCA Male, 20.0 ft	24.75	22.28	19.80	17.33	14.85

Assembled S-Video Cable Assemblies - Molded Dual BNC-M, 75 Ohm Dual Coaxial Breakout Cable

CCD244MB-1	Assembled Mini DIN 4 Male / Dual BNC Male, 1.0 ft	13.50	12.69	11.88	11.07	10.26
CCD244MB-2	Assembled Mini DIN 4 Male / Dual BNC Male, 2.0 ft	14.20	13.35	12.50	11.64	10.79
CCD244MB-3	Assembled Mini DIN 4 Male / Dual BNC Male, 3.0 ft	14.90	14.01	13.11	12.22	11.32
CCD244MB-5	Assembled Mini DIN 4 Male / Dual BNC Male, 5.0 ft	16.30	15.32	14.34	13.37	12.39
CCD244MB-7.5	Assembled Mini DIN 4 Male / Dual BNC Male, 7.5 ft	18.05	16.97	15.88	14.80	13.72
CCD244MB-10	Assembled Mini DIN 4 Male / Dual BNC Male, 10.0 ft	19.80	18.61	17.42	16.24	15.05
CCD244MB-20	Assembled Mini DIN 4 Male / Dual BNC Male, 20.0 ft	26.80	25.19	23.58	21.98	20.37

Assembled S-Video to Single Composite RCA Cable Assemblies

These cables combine the S-Video Mini DIN 4 connector found on SVHS with the single RCA connector used for composite video allowing the conversion from S-Video transmission to composite video.

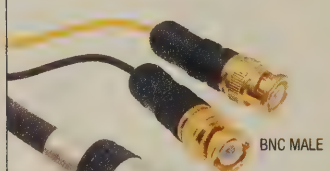
CCD144MR-2	Assembled Mini DIN 4 Male / Single RCA Male, 2.0 ft	11.00	10.34	9.68	9.02	8.36
CCD144MR-6	Assembled Mini DIN 4 Male / Single RCA Male, 6.0 ft	13.00	12.22	11.44	10.66	9.88
CCD144MR-10	Assembled Mini DIN 4 Male / Single RCA Male, 10.0 ft	15.00	14.10	13.20	12.30	11.40
CCD144MR-15	Assembled Mini DIN 4 Male / Single RCA Male, 15.0 ft	17.50	16.45	15.40	14.35	13.30
CCD144MR-20	Assembled Mini DIN 4 Male / Single RCA Male, 20.0 ft	20.00	18.80	17.60	16.40	15.20
CCD144MR-25	Assembled Mini DIN 4 Male / Single RCA Male, 25.0 ft	22.50	21.15	19.80	18.45	17.10

CCD234MM
(molded)CCD244MM
(assembled)

RCA MALE



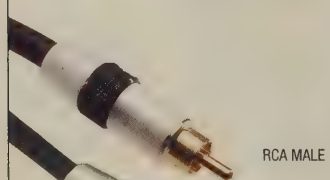
SVHS MALE



BNC MALE



SVHS MALE



RCA MALE



SVHS MALE

Item #	Description	#Coax	1-9	10-24	25-99	100-249	250-499
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RoHS Premium Multiple Line Coaxial Cables with BNC Plugs - 3, 4, or 5 Coaxials

These extraordinary low loss coaxials are particularly suitable for transmission of RGB signals over extended distances without worry of signal deterioration or crosstalk. Each individual Slimline coaxial has a 75 Ohm impedance and a full shield coverage comprised of a copper braid and mylar shield. Coaxial colors are Red, Green, Blue, Black and Gray. Outer appearance is Black including molded strain reliefs.

CTL3B-5B	Premium Multi-Coaxial Cable, 3 BNC Male / Male, 5.0 ft	3	21.75	20.01	18.27	16.53	14.79
CTL3B-7.5B	Premium Multi-Coaxial Cable, 3 BNC Male / Male, 7.5 ft	3	25.15	23.14	21.13	19.11	17.10
CTL3B-10B	Premium Multi-Coaxial Cable, 3 BNC Male / Male, 10.0 ft	3	28.50	26.22	23.94	21.66	19.38
CTL3B-15B	Premium Multi-Coaxial Cable, 3 BNC Male / Male, 15.0 ft	3	35.25	32.43	29.61	26.79	23.97
CTL3B-25B	Premium Multi-Coaxial Cable, 3 BNC Male / Male, 25.0 ft	3	48.75	44.85	40.95	37.05	33.15
CTL3B-50B	Premium Multi-Coaxial Cable, 3 BNC Male / Male, 50.0 ft	3	82.50	75.90	69.30	62.70	56.10
CTL4B-5B	Premium Multi-Coaxial Cable, 4 BNC Male / Male, 5.0 ft	4	26.50	24.38	22.26	20.14	18.02
CTL4B-7.5B	Premium Multi-Coaxial Cable, 4 BNC Male / Male, 7.5 ft	4	30.75	28.29	25.83	23.37	20.91
CTL4B-10B	Premium Multi-Coaxial Cable, 4 BNC Male / Male, 10.0 ft	4	35.00	32.20	29.40	26.60	23.80
CTL4B-15B	Premium Multi-Coaxial Cable, 4 BNC Male / Male, 15.0 ft	4	43.50	40.02	36.54	33.06	29.58
CTL4B-25B	Premium Multi-Coaxial Cable, 4 BNC Male / Male, 25.0 ft	4	60.50	55.66	50.82	45.98	41.14
CTL4B-50B	Premium Multi-Coaxial Cable, 4 BNC Male / Male, 50.0 ft	4	103.00	94.76	86.52	78.28	70.04
CTL5B-5B	Premium Multi-Coaxial Cable, 5 BNC Male / Male, 5.0 ft	5	31.50	28.98	26.46	23.94	21.42
CTL5B-7.5B	Premium Multi-Coaxial Cable, 5 BNC Male / Male, 7.5 ft	5	36.75	33.81	30.87	27.93	24.99
CTL5B-10B	Premium Multi-Coaxial Cable, 5 BNC Male / Male, 10.0 ft	5	42.00	38.64	35.28	31.92	28.56
CTL5B-15B	Premium Multi-Coaxial Cable, 5 BNC Male / Male, 15.0 ft	5	52.50	48.30	44.10	39.90	35.70
CTL5B-25B	Premium Multi-Coaxial Cable, 5 BNC Male / Male, 25.0 ft	5	73.50	67.62	61.74	55.86	49.98
CTL5B-50B	Premium Multi-Coaxial Cable, 5 BNC Male / Male, 50.0 ft	5	126.00	115.92	105.84	95.76	85.68

RoHS Deluxe Multiple Line Coaxial Cables with BNC Plugs - 3, 4, or 5 Coaxials

Low loss coaxial cables are suitable for transmitting RGB video signals. Light weight and flexibility make these cables ideal for graphic systems connections. 75 Ohm coaxial lines utilize spiral shielding for extra flexibility. Coaxial color identity is: Red, Green, Blue, Black and Gray. Jacket color: Gray.

CTL3B-5	Deluxe Multi-Coaxial Cable, 3 BNC Male / Male, 5.0 ft	3	20.50	18.86	17.22	15.58	13.94
CTL3B-7.5	Deluxe Multi-Coaxial Cable, 3 BNC Male / Male, 7.5 ft	3	23.25	21.39	19.53	17.67	15.81
CTL3B-10	Deluxe Multi-Coaxial Cable, 3 BNC Male / Male, 10.0 ft	3	26.00	23.92	21.84	19.76	17.68
CTL3B-15	Deluxe Multi-Coaxial Cable, 3 BNC Male / Male, 15.0 ft	3	31.50	28.98	26.46	23.94	21.42
CTL3B-25	Deluxe Multi-Coaxial Cable, 3 BNC Male / Male, 25.0 ft	3	42.50	39.10	35.70	32.30	28.90
CTL4B-5	Deluxe Multi-Coaxial Cable, 4 BNC Male / Male, 5.0 ft	4	25.00	23.00	21.00	19.00	17.00
CTL4B-7.5	Deluxe Multi-Coaxial Cable, 4 BNC Male / Male, 7.5 ft	4	28.50	26.22	23.94	21.66	19.38
CTL4B-10	Deluxe Multi-Coaxial Cable, 4 BNC Male / Male, 10.0 ft	4	32.00	29.44	26.88	24.32	21.76
CTL4B-15	Deluxe Multi-Coaxial Cable, 4 BNC Male / Male, 15.0 ft	4	39.00	35.88	32.76	29.64	26.52
CTL4B-25	Deluxe Multi-Coaxial Cable, 4 BNC Male / Male, 25.0 ft	4	53.00	48.76	44.52	40.28	36.04
CTL4B-50	Deluxe Multi-Coaxial Cable, 4 BNC Male / Male, 50.0 ft	4	88.00	80.96	73.92	66.88	59.84
CTL5B-5	Deluxe Multi-Coaxial Cable, 5 BNC Male / Male, 5.0 ft	5	29.75	27.37	24.99	22.61	20.23
CTL5B-7.5	Deluxe Multi-Coaxial Cable, 5 BNC Male / Male, 7.5 ft	5	34.15	31.42	28.69	25.95	23.22
CTL5B-10	Deluxe Multi-Coaxial Cable, 5 BNC Male / Male, 10.0 ft	5	38.50	35.42	32.34	29.26	26.18
CTL5B-15	Deluxe Multi-Coaxial Cable, 5 BNC Male / Male, 15.0 ft	5	47.25	43.47	39.69	35.91	32.13
CTL5B-25	Deluxe Multi-Coaxial Cable, 5 BNC Male / Male, 25.0 ft	5	64.75	59.57	54.39	49.21	44.03

Plenum Rated, Multiple Thinline Coaxial Cables - Feature Spiral and Foil Shields - .104" Dia.

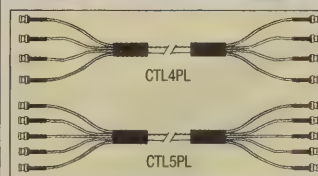
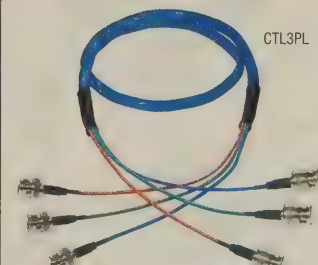
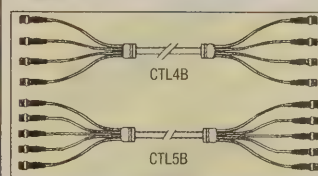
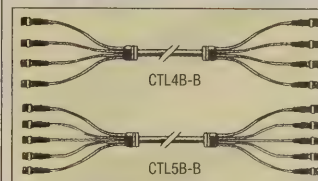
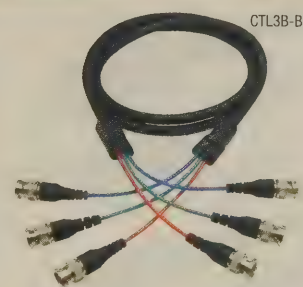
Now available in 3, 4 and 5 Thinline configurations is a plenum rated, low loss RGB cable offering. Sturdily constructed with UL listed CL2P rated cable. True 75 Ohm BNC connectors provide exceptional signal clarity.

CTL3PL-5	Plenum Multi-Coaxial Cable, 3 BNC Male / Male, 5.0 ft	3	50.00	48.00	46.00	44.00	42.00
CTL3PL-10	Plenum Multi-Coaxial Cable, 3 BNC Male / Male, 10.0 ft	3	75.00	72.00	69.00	66.00	63.00
CTL3PL-25	Plenum Multi-Coaxial Cable, 3 BNC Male / Male, 25.0 ft	3	150.00	144.00	138.00	132.00	126.00
CTL3PL-50	Plenum Multi-Coaxial Cable, 3 BNC Male / Male, 50.0 ft	3	275.00	264.00	253.00	242.00	231.00
CTL3PL-75	Plenum Multi-Coaxial Cable, 3 BNC Male / Male, 75.0 ft	3	400.00	384.00	368.00	352.00	336.00
CTL3PL-100	Plenum Multi-Coaxial Cable, 3 BNC Male / Male, 100.0 ft	3	525.00	504.00	483.00	462.00	441.00
CTL4PL-5	Plenum Multi-Coaxial Cable, 4 BNC Male / Male, 5.0 ft	4	65.00	62.40	59.80	57.20	54.60
CTL4PL-10	Plenum Multi-Coaxial Cable, 4 BNC Male / Male, 10.0 ft	4	92.50	88.80	85.10	81.40	77.70
CTL4PL-25	Plenum Multi-Coaxial Cable, 4 BNC Male / Male, 25.0 ft	4	175.00	168.00	161.00	154.00	147.00
CTL4PL-50	Plenum Multi-Coaxial Cable, 4 BNC Male / Male, 50.0 ft	4	312.50	300.00	287.50	275.00	262.50
CTL4PL-75	Plenum Multi-Coaxial Cable, 4 BNC Male / Male, 75.0 ft	4	450.00	432.00	414.00	396.00	378.00
CTL4PL-100	Plenum Multi-Coaxial Cable, 4 BNC Male / Male, 100.0 ft	4	587.50	564.00	540.50	517.00	493.50
CTL5PL-5	Plenum Multi-Coaxial Cable, 5 BNC Male / Male, 5.0 ft	5	75.00	72.00	69.00	66.00	63.00
CTL5PL-10	Plenum Multi-Coaxial Cable, 5 BNC Male / Male, 10.0 ft	5	105.00	100.80	96.60	92.40	88.20
CTL5PL-25	Plenum Multi-Coaxial Cable, 5 BNC Male / Male, 25.0 ft	5	195.00	187.20	179.40	171.60	163.80
CTL5PL-50	Plenum Multi-Coaxial Cable, 5 BNC Male / Male, 50.0 ft	5	345.00	331.20	317.40	303.60	289.80
CTL5PL-75	Plenum Multi-Coaxial Cable, 5 BNC Male / Male, 75.0 ft	5	495.00	475.20	455.40	435.60	415.80
CTL5PL-100	Plenum Multi-Coaxial Cable, 5 BNC Male / Male, 100.0 ft	5	645.00	619.20	593.40	567.60	541.80

RoHS Premium 8 Line Coaxial Cable with BNC Plugs

These multiple line coaxial assemblies provide a neatly packaged bundle for use in such applications as video servers. They replace individual coaxial runs that can be difficult to handle in high density applications eliminating unsightly cable entanglements. Individual coaxial lines are color coded to assure proper connections are made. All coaxial lines are 75 Ohm impedance and feature full shield coverage comprised of copper braid and aluminum backed mylar.

CTL8B-5B	Premium Multi-Coaxial Cable, 8 BNC Male / Male, 5.0 ft	8	75.00	70.50	66.00	61.50	57.00
CTL8B-7.5B	Premium Multi-Coaxial Cable, 8 BNC Male / Male, 7.5 ft	8	80.00	75.20	70.40	65.60	60.80
CTL8B-10B	Premium Multi-Coaxial Cable, 8 BNC Male / Male, 10.0 ft	8	85.00	79.90	74.80	69.70	64.60
CTL8B-15B	Premium Multi-Coaxial Cable, 8 BNC Male / Male, 15.0 ft	8	95.00	89.30	83.60	77.90	72.20
CTL8B-20B	Premium Multi-Coaxial Cable, 8 BNC Male / Male, 20.0 ft	8	105.00	98.70	92.40	86.10	79.80
CTL8B-25B	Premium Multi-Coaxial Cable, 8 BNC Male / Male, 25.0 ft	8	115.00	108.10	101.20	94.30	87.40



Custom design and manufacturing capabilities

Our product design process takes you from concept to production. L-com.com/Custom

Item #	Description	1-9	10-24	25-99	100-249	250-499
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RG59A/U - 75 Ohm Premium Video Cables with BNC, RCA and Type F Plugs

This series features RG59A/U 75 Ohm cable with a stranded center conductor for greater flexibility that resists twisting, bending and other stresses associated with frequent handling. Other features include durable molded boots on all connectors with gold plated contact surfaces for optimum transmission properties. The Type F connectors have captive gold plated contact pins and do not use the cable center conductors like cables of lesser quality.

RG59A/U	75 Ohm Impedance		NOMINAL ATTENUATION		
			MHz	db/100 ft	db/100m
		- Center Conductor: 22 (7x30) AWG bare compacted copper - Shielding: Bare copper braid (96% coverage) - Insulation: Foam polyethylene - Jacket: Black PVC - Operating Temperature: -40°C - +80°C	50	2.1	6.9
			100	3.0	9.8
			200	4.5	14.8
			400	6.6	21.7
			1000	10.9	35.8

✓RoHS RG59A/U - 75 Ohm Coaxial Cables with Two Inline RCA Molded Plugs

CC59A-RR-1	RG59A Cable, RCA Male / Male, 1.0 ft	4.50	4.32	4.14	3.96	3.78
CC59A-RR-3	RG59A Cable, RCA Male / Male, 3.0 ft	5.50	5.28	5.06	4.84	4.62
CC59A-RR-6	RG59A Cable, RCA Male / Male, 6.0 ft	7.00	6.72	6.44	6.16	5.88
CC59A-RR-9	RG59A Cable, RCA Male / Male, 9.0 ft	8.50	8.16	7.82	7.48	7.14
CC59A-RR-12	RG59A Cable, RCA Male / Male, 12.0 ft	10.00	9.60	9.20	8.80	8.40

✓RoHS RG59A/U - 75 Ohm Coaxial Cables with One Molded RCA to One Molded BNC Plug

CC59A-RB-1	RG59A Cable, RCA Male / BNC Male, 1.0 ft	4.50	4.32	4.14	3.96	3.78
CC59A-RB-3	RG59A Cable, RCA Male / BNC Male, 3.0 ft	5.50	5.28	5.06	4.84	4.62
CC59A-RB-6	RG59A Cable, RCA Male / BNC Male, 6.0 ft	7.00	6.72	6.44	6.16	5.88
CC59A-RB-9	RG59A Cable, RCA Male / BNC Male, 9.0 ft	8.50	8.16	7.82	7.48	7.14
CC59A-RB-12	RG59A Cable, RCA Male / BNC Male, 12.0 ft	10.00	9.60	9.20	8.80	8.40

✓RoHS RG59A/U - 75 Ohm Coaxial Cables with One Molded RCA to One Molded Type F Plug

CC59A-RF-1	RG59A Cable, RCA Male / Type F Male, 1.0 ft	4.50	4.32	4.14	3.96	3.78
CC59A-RF-3	RG59A Cable, RCA Male / Type F Male, 3.0 ft	5.50	5.28	5.06	4.84	4.62
CC59A-RF-6	RG59A Cable, RCA Male / Type F Male, 6.0 ft	7.00	6.72	6.44	6.16	5.88
CC59A-RF-9	RG59A Cable, RCA Male / Type F Male, 9.0 ft	8.50	8.16	7.82	7.48	7.14
CC59A-RF-12	RG59A Cable, RCA Male / Type F Male, 12.0 ft	10.00	9.60	9.20	8.80	8.40

✓RoHS RG59A/U - 75 Ohm Coaxial Cables with One Molded BNC to One Molded Type F Plug

CC59A-BF-1	RG59A Cable, BNC Male / Type F Male, 1.0 ft	6.00	5.76	5.52	5.28	5.04
CC59A-BF-3	RG59A Cable, BNC Male / Type F Male, 3.0 ft	7.00	6.72	6.44	6.16	5.88
CC59A-BF-6	RG59A Cable, BNC Male / Type F Male, 6.0 ft	8.50	8.16	7.82	7.48	7.14
CC59A-BF-9	RG59A Cable, BNC Male / Type F Male, 9.0 ft	10.00	9.60	9.20	8.80	8.40
CC59A-BF-12	RG59A Cable, BNC Male / Type F Male, 12.0 ft	11.50	11.04	10.58	10.12	9.66

Thinline 75 Ohm (.11" Dia.) Coaxial Cable Assemblies

Substitute our smaller diameter, more flexible, lighter weight Thinline cable assemblies for your traditional 75 Ohm cable assemblies. This coaxial cable features a spiral tinned copper shield and a proprietary air foamed dielectric. Thinline 75 Ohm cable is less than half the size of RG59 and RG6 cable assemblies. Available in BNC, RCA and Type F connectors with fully molded strain relief.

Thinline	75 Ohm Impedance		NOMINAL ATTENUATION		
			MHz	db/100 ft	db/100m
		- Center Conductor: 28 AWG (7 x 38) stranded tinned copper wire - Shielding: Tinned copper spiral shield (95% coverage) - Insulation: Foamed polyethylene - Jacket: Black PVC - Operating Temperature: -40°C - +80°C	5	1.4	4.6
			10	2.1	6.9
			30	3.8	12.5
			50	5.1	16.7
			100	7.6	24.9

✓RoHS Thinline - 75 Ohm Coaxial Cables with Two Inline Molded BNC Plugs

CTL1B-1	Thinline Cable, BNC Male / Male, 1.0 ft	7.00	6.72	6.44	6.16	5.88
CTL1B-2.5	Thinline Cable, BNC Male / Male, 2.5 ft	7.75	7.44	7.13	6.82	6.51
CTL1B-5	Thinline Cable, BNC Male / Male, 5.0 ft	9.00	8.64	8.28	7.92	7.56
CTL1B-7.5	Thinline Cable, BNC Male / Male, 7.5 ft	10.25	9.84	9.43	9.02	8.61
CTL1B-10	Thinline Cable, BNC Male / Male, 10.0 ft	11.50	11.04	10.58	10.12	9.66
CTL1B-15	Thinline Cable, BNC Male / Male, 15.0 ft	14.00	13.44	12.88	12.32	11.76
CTL1B-25	Thinline Cable, BNC Male / Male, 25.0 ft	19.00	18.24	17.48	16.72	15.96

✓RoHS Thinline - 75 Ohm Coaxial Cables with Two Inline Molded RCA Plugs

CTL1R-1	Thinline Cable, RCA Male / Male, 1.0 ft	5.50	5.28	5.06	4.84	4.62
CTL1R-5	Thinline Cable, RCA Male / Male, 5.0 ft	7.50	7.20	6.90	6.60	6.30
CTL1R-10	Thinline Cable, RCA Male / Male, 10.0 ft	10.00	9.60	9.20	8.80	8.40
CTL1R-15	Thinline Cable, RCA Male / Male, 15.0 ft	12.50	12.00	11.50	11.00	10.50
CTL1R-25	Thinline Cable, RCA Male / Male, 25.0 ft	17.50	16.80	16.10	15.40	14.70

✓RoHS Thinline - 75 Ohm Coaxial Cables with One Inline RCA to One Inline BNC Plug

CTL1RB-1	Thinline Cable, RCA Male / BNC Male, 1.0 ft	5.50	5.28	5.06	4.84	4.62
CTL1RB-5	Thinline Cable, RCA Male / BNC Male, 5.0 ft	7.50	7.20	6.90	6.60	6.30
CTL1RB-10	Thinline Cable, RCA Male / BNC Male, 10.0 ft	10.00	9.60	9.20	8.80	8.40
CTL1RB-15	Thinline Cable, RCA Male / BNC Male, 15.0 ft	12.50	12.00	11.50	11.00	10.50
CTL1RB-25	Thinline Cable, RCA Male / BNC Male, 25.0 ft	17.50	16.80	16.10	15.40	14.70

✓RoHS Thinline - 75 Ohm Coaxial Cables with One Inline Type F to One Inline BNC Plug

CTL1FB-1	Thinline Cable, Type F Male / BNC Male, 1.0 ft	6.50	6.24	5.98	5.72	5.46
CTL1FB-5	Thinline Cable, Type F Male / BNC Male, 5.0 ft	8.50	8.16	7.82	7.48	7.14
CTL1FB-10	Thinline Cable, Type F Male / BNC Male, 10.0 ft	11.00	10.56	10.12	9.68	9.24
CTL1FB-15	Thinline Cable, Type F Male / BNC Male, 15.0 ft	13.50	12.96	12.42	11.88	11.34
CTL1FB-25	Thinline Cable, Type F Male / BNC Male, 25.0 ft	18.50	17.76	17.02	16.28	15.54

Item #	Description	1-9	10-24	25-99	100-249	250-499
RoHS Premium RCA Audio/Video Molded Cables - 3 RCAs Per End						
Premium high flex Thinline 75 Ohm coaxials and fully molded strain reliefs with gold plated connectors provide rugged and reliable connections. Individual legs colored: Yellow, White and Red.						
CCR3MM-2	3 Line RCA Cable, RCA Male / Male, 2.0 ft	9.00	8.28	7.56	6.84	6.12
CCR3MM-3	3 Line RCA Cable, RCA Male / Male, 3.0 ft	10.00	9.20	8.40	7.60	6.80
CCR3MM-6	3 Line RCA Cable, RCA Male / Male, 6.0 ft	13.00	11.96	10.92	9.88	8.84
CCR3MM-9	3 Line RCA Cable, RCA Male / Male, 9.0 ft	16.00	14.72	13.44	12.16	10.88
CCR3MM-12	3 Line RCA Cable, RCA Male / Male, 12.0 ft	19.00	17.48	15.96	14.44	12.92
CCR3MM-25	3 Line RCA Cable, RCA Male / Male, 25.0 ft	32.00	29.44	26.88	24.32	21.76

RoHS Premium Molded RCA Audio Cable Assembly - 2 RCAs Per End

These high quality dual line coaxial cables with gold plated RCA connectors provide the best in audio transmission. Color coded in Red and White to easily identify the left and right channel.

CCR2MM-2	2 Line Dual RCA Cable, RCA Male / Male, 2.0 ft	6.25	5.88	5.50	5.13	4.75
CCR2MM-3	2 Line Dual RCA Cable, RCA Male / Male, 3.0 ft	6.75	6.35	5.94	5.53	5.13
CCR2MM-6	2 Line Dual RCA Cable, RCA Male / Male, 6.0 ft	8.25	7.76	7.26	6.77	6.27
CCR2MM-9	2 Line Dual RCA Cable, RCA Male / Male, 9.0 ft	9.75	9.16	8.58	7.99	7.41
CCR2MM-12	2 Line Dual RCA Cable, RCA Male / Male, 12.0 ft	11.25	10.58	9.90	9.23	8.55
CCR2MM-25	2 Line Dual RCA Cable, RCA Male / Male, 25.0 ft	17.75	16.68	15.62	14.56	13.49

Component Video (YCbCr) 3 RCA Plugs in a Single Jacket - Molded Strain Relief

These assemblies utilize premium grade 75 Ohm coaxial cable and gold plated connectors to assure optimum transmission of the component video signal. Coaxial cable is color coded with Red, Green, Blue lines for ease of use. They are bundled in a single jacket with molded strain reliefs providing a rugged yet compact assembly.

CVR3MM-2	3 Line Component Video Cable, RCA Male / Male, 2.0 ft	9.00	8.28	7.56	6.84	6.12
CVR3MM-3	3 Line Component Video Cable, RCA Male / Male, 3.0 ft	10.00	9.20	8.40	7.60	6.80
CVR3MM-6	3 Line Component Video Cable, RCA Male / Male, 6.0 ft	13.00	11.96	10.92	9.88	8.84
CVR3MM-9	3 Line Component Video Cable, RCA Male / Male, 9.0 ft	16.00	14.72	13.44	12.16	10.88
CVR3MM-12	3 Line Component Video Cable, RCA Male / Male, 12.0 ft	19.00	17.48	15.96	14.44	12.92
CVR3MM-25	3 Line Component Video Cable, RCA Male / Male, 25.0 ft	32.00	29.44	26.88	24.32	21.76

RoHS Premium 3.5mm (1/8") 3 Conductor Cables for Microphone, Speaker and Other Applications

These low loss premium 3.5mm cable assemblies offer superior performance when compared to similar commercial counterparts. Connectors are gold plated reducing corrosion while maintaining reliable contact. 22 AWG conductors and a double shield provide minimum loss even at long lengths.

CTL35MM-3	Stereo Cable, 3.5mm Male / Male, 3.0 ft	5.00	4.80	4.60	4.40	4.20
CTL35MM-5	Stereo Cable, 3.5mm Male / Male, 5.0 ft	6.00	5.76	5.52	5.28	5.04
CTL35MM-10	Stereo Cable, 3.5mm Male / Male, 10.0 ft	8.50	8.16	7.82	7.48	7.14
CTL35MM-25	Stereo Cable, 3.5mm Male / Male, 25.0 ft	16.00	15.36	14.72	14.08	13.44
CTL35MM-50	Stereo Cable, 3.5mm Male / Male, 50.0 ft	28.50	27.36	26.22	25.08	23.94
CTL35MM-100	Stereo Cable, 3.5mm Male / Male, 100.0 ft	53.50	51.36	49.22	47.08	44.94
CTL35MF-3	Stereo Cable, 3.5mm Male / Female, 3.0 ft	5.00	4.80	4.60	4.40	4.20
CTL35MF-5	Stereo Cable, 3.5mm Male / Female, 5.0 ft	6.00	5.76	5.52	5.28	5.04
CTL35MF-10	Stereo Cable, 3.5mm Male / Female, 10.0 ft	8.50	8.16	7.82	7.48	7.14
CTL35MF-25	Stereo Cable, 3.5mm Male / Female, 25.0 ft	16.00	15.36	14.72	14.08	13.44
CTL35MF-50	Stereo Cable, 3.5mm Male / Female, 50.0 ft	28.50	27.36	26.22	25.08	23.94
CTL35MF-100	Stereo Cable, 3.5mm Male / Female, 100.0 ft	53.50	51.36	49.22	47.08	44.94

RoHS RCA Female Feed-Thru Adapter - with Red, Green, Blue, Yellow or White Insulators

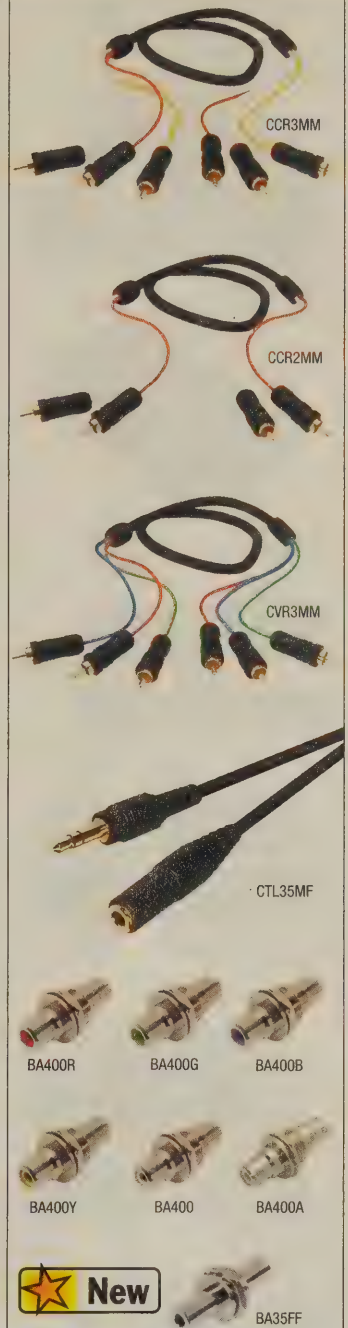
These RCA feed-thru adapters feature insulators color coded for both video and audio applications. This color coding assists in component hookup to avoid improper connections.

BA400R	Coaxial Adapter, RCA Bulkhead Female / Female, Red Insulator	3.65	3.43	3.21	2.99	2.77
BA400G	Coaxial Adapter, RCA Bulkhead Female / Female, Green Insulator	3.65	3.43	3.21	2.99	2.77
BA400B	Coaxial Adapter, RCA Bulkhead Female / Female, Blue Insulator	3.65	3.43	3.21	2.99	2.77
BA400Y	Coaxial Adapter, RCA Bulkhead Female / Female, Yellow Insulator	3.65	3.43	3.21	2.99	2.77
BA400	Coaxial Adapter, RCA Bulkhead Female / Female, White Insulator	3.65	3.43	3.21	2.99	2.77
BA400A	Coaxial Adapter, RCA Bulkhead Female / Female, 0.5" Circular Hole	3.65	3.43	3.21	2.99	2.77

RoHS 3.5mm Audio Bulkhead Coupler - Feeds Audio Cables Through Panels, Wall Plates and Enclosures

L-com's 3.5mm audio bulkhead coupler offers a practical and economical way to feed audio cables through panels, wall plates and enclosures. The .50" D-hole design and lock washer ensure a secure fit. This versatile coupler is also available pre-mounted on L-com's USP2-35MM and USP4-35MM two port and four port Universal Sub Panels.

BA35FF	Coaxial Adapter, 3.5mm Bulkhead Female / Female	7.72	7.10	6.48	5.87	5.25
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How to tame the RGB, Component, S-Video, Composite beast

Color video signal is transmitted across a wide variety of transmission medias. Below is an illustration of how they work with each other.



Red + Black and White
Green + Black and White
Blue + Black and White

Color and black and white information is combined and transmitted across multiple lines

A converter is needed to separate the color signals from the black and white signals so that it can be transmitted across any one of these medias.



Black and White
Color
Color

Black and White
Color

Color + Black and White

Once the RGB signal is separated into color and black & white elements, interconnection between Component, S-Video and Composite is possible without the use of a converter.



Technical resources

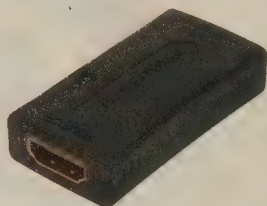
Free tips, tutorials and downloads help you learn all about connectivity. Visit L-com.com/Resources



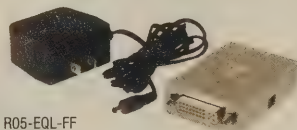
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6100951-L



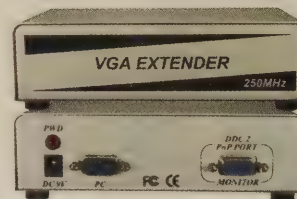
HDMI-EXT-150



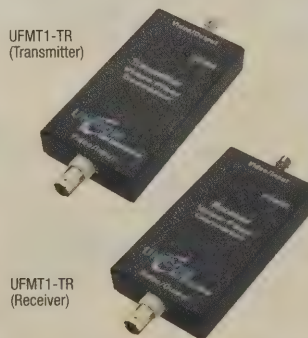
R05-EQL-FF



GFN-VGA-145



CMSV601-D

UFMT1-TR
(Receiver)

Item #	Description	List Price
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L-com LDSDS-1000 Digital Signage Distribution System - Flexible, High Performance

Use L-com's SignDriver™ LDSDS-1000 Digital Signage Distribution System to get your message across to your customers. This rugged, high performance solution delivers crystal clear video content via Cat-X unshielded twisted pair cabling to video monitors up to 1,000-feet away from the source and supports video resolutions of up to 1600x1280@60hz.

The core of the system is the LDSDS-1000 Cat-X Video Distribution Hub. This device is equipped with a standard VGA HD15-F connector which is attached to the video content host. Video information is then broadcasted simultaneously to the 4-RJ45 Category-X jacks. Use the VGA-HD15 Output port to cascade multiple hubs together to build a much larger system.

To attach the video displays to the system, simply connect a compact LDSDS-1000 Remote Interface Module to the monitor and the unshielded twisted pair cabling from the hub and you're ready to start broadcasting content. The Remote Interface Module is also equipped with a second Cat-X RJ-45 connector to cascade or daisy chain multiple Remote Interface Modules. Optimize video clarity by adjusting the Compensation and Gain Controls.

- Broadcast video content via Cat-X UTP cabling
- Scalable solution that grows with you
- Easy to install and simple to use
- Supports video resolutions up to 1600x1280
- Locate video monitors up to 1,000' from the host distribution Hub

6100950-L	SignDriver™ LDSDS-1000 4-Port Cat-X Video Distribution Hub	249.00
6100951-L	SignDriver™ LDSDS-1000 4-Port Cat-X Video Distribution Hub/with Audio	279.00
6100952-L	SignDriver™ LDSDS-1000 Remote Receiver	179.00
6100953-L	SignDriver™ LDSDS-1000 Remote Receiver/with Audio	229.00
6100990-L	SignDriver™ LVE-500 Single Port Video Extender Kit	349.00
6100991-L	SignDriver™ LVE-500 Single Port Video Extender Kit/with Audio	389.00

Inline HDMI Extender/Equalizer

This small form factor HDMI extender can be quickly installed and provides up to 150 feet of HDMI extension! The HDMI-EXT-150 requires no external power supply and supports popular HDTV (High Definition TV) resolutions including 1080p. Simply connect the Source port to a long HDMI cable (up to 150 feet) and then to an HDMI source such as a cable set-top box or satellite receiver. Next, connect a short HDMI cable (1 foot or 1 meter) to the Sync/Display port then to the display and set up is complete.

HDMI-EXT-150	Inline HDMI Extender/Equalizer	54.99
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RoHS DVI Extender - Extends DVI Video Signals up to 150 feet

This competitively priced DVI extender/equalizer extends DVI video signals up to 150 feet while maintaining a pristine image. This DVI extender takes a signal from the source and sends it up to 150 feet over a standard DVI cable and connects to a display via a short (15 feet or less) DVI cable. The unit features a plug and play design and includes a power adapter.

R05-EQL-FF	DVI Extender	99.99
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Item #	Description	1-9	10-24	25-99	100-249	250-499
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Gefen 1:4 VGA Splitter

The ex-tend-it 1:4 VGA Hub allows a computer with a VGA graphics card to connect to up to four VGA compatible monitors or projectors at the same time. Because this device allows one computer to drive multiple monitors for simultaneous viewing, you can use it to set up additional monitors in the workspace. It also allows you to assist presentation environments by sending graphics to both monitors and projectors at the same time. Ships with one 6-foot VGA cable (M-F) and a 5V external power supply.

GFN-VGA-145	Gefen 1:4 VGA Splitter	199.00	195.02	191.04	187.06	183.08
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SVGA Video Extender, HD15 Male / Female

The CMSV601-D is used to amplify video signals from a VGA, SVGA, or multi-sync video cards. The unit has one HD15M plug for input and one HD15F for output. It amplifies video signals with bandwidth up to 250 MHz to a maximum distance of 250 feet. Powered by a 9VDC power transformer that is included. The CMSV601-D supports screen resolutions of up to 1600 x 1200.

CMSV601-D	SVGA Video Extender, HD15 Male / Female	79.00	77.42	75.84	74.26	72.68
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**Tip**

What bandwidth amplification do I need when splitting or extending my monitor?

The chart below should help answer that question. There are two factors that mainly affect bandwidth. First, the resolution at which the monitor is to operate must be known (ex. 1024 x 768). Second, the required refresh rate in Hz (ex. 60 Hz), for acceptable display quality must also be known. Both settings are typically user adjustable. Start by selecting the refresh rate and intersect with the proper resolution column.

Approximate Bandwidth Required (MHz)

Refresh Rate	Resolution (Pixels)					
	640 x 480	800 x 600	1024 x 768	1280 x 1024	1600 x 1280	1920 x 1440
50 Hz	20 MHz	33 MHz	54 MHz	89 MHz	140 MHz	189 MHz
60 Hz	25 MHz	39 MHz	64 MHz	107 MHz	168 MHz	226 MHz
70 Hz	29 MHz	46 MHz	75 MHz	125 MHz	196 MHz	264 MHz
80 Hz	34 MHz	52 MHz	86 MHz	143 MHz	224 MHz	302 MHz
90 Hz	38 MHz	59 MHz	97 MHz	161 MHz	252 MHz	340 MHz
100 Hz	42 MHz	66 MHz	107 MHz	179 MHz	280 MHz	377 MHz

Item #	Description	List Price
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Unicom Coaxial / Multimode Fiber Optic Video Converter - BNC and ST Ports

The UFMT1-TR is a video/fiber optic converter pair that transmits a video signal over a single multimode fiber optic cable. Accepts signal bandwidth to 8 MHz with transmission lengths to 2500 meters. Transmitter and receiver pairs are sold as a kit. Each unit has single ST and BNC connectors and measures 2.25 in. x 2.75 in. x 0.8 in. It is powered by 9VDC power supplies which are included. 5 year manufacturer's warranty.

UFMT1-TR	Unicom Coaxial / Fiber Converter Pair	469.00
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Item #	Description	List Price
AdderView CATx Series KVM Switches		
The AdderView CATx Series is a range of secure, KVM via CATx switches that provide 4 concurrent local, remote or global users with BIOS-level control of up to 24 multiplatform servers. A "plug-and-play," 1U appliance, the AdderView CATx is a completely self-contained system that installs in minutes combining high security, flexibility, integrated remote power control, faultless quality video and optional CD quality audio. The two members of the series are the AdderView CATx supporting 16 or 24 CATx computer connections, 4 simultaneous users (1 x local PS/2 or USB, 4 x remote over CATx) and the AdderView CATx IP supporting 16 or 24 CATx computer connections, 4 simultaneous users (1 x local PS/2 or USB, 2 x remote over CATx, 1 x global over IP).		
• Enterprise grade security (using AES 128 bit encryption and RSA 2048 bit public key authentication) • PS/2 or USB keyboard and mouse control provides design flexibility • IP versions allow for global control of PCs and servers		
AVX4016IP	AdderView Catx IP 4 User, 16 Port Switch	2155.50
AVX4024IP	AdderView Catx IP 4 User, 24 Port Switch	2425.50
AVX4016	AdderView Catx 4 User, 16 Port Switch	1525.50
AVX4024	AdderView Catx 4 User, 24 Port Switch	1795.50
X100R	PS2 KVM User Station IEC PSU	292.50
X100A-R	PS2 KVM User Station with Audio IEC PSU	328.50
X100AS-R	PS2 KVM User Station with Audio and De-skew IEC PSU	405.00
X200R-US	KVM USB User Station, No Audio, No De-skew	399.00
X200A-R-US	KVM USB User Station, with Audio, No De-skew	440.00
X200AS-R-US	KVM USB User Station, with Audio and De-skew	525.00
CATx-PS2	CATx PS2 Computer Access Module	72.00
CATx-PS2A	CATx PS2 Plus Audio Computer Access Module	90.00
CATx-USB	CATx USB Computer Access Module	72.00
CATx-USB A	CATx USB Plus Audio Computer Access Module	90.00
CATx-SUN A	CATx SUN Plus Audio Computer Access Module	90.00

AdderView Matrix

The 8 and 16 channel AdderView Matrix is packed with sophisticated features. 2 simultaneous users, Advanced On-Screen Display, 1900 x 1440 video resolution, Flash upgradeable firmware and individual user profiling. The AdderView Matrix is an advanced KVM rack solution at incredible value.

AVM208	AdderView Matrix, 2 Users 8 Port KVM Switch	805.50
AVM216	AdderView Matrix, 2 Users 16 Port KVM Switch	1165.50

Adder USB KVM Interface Cable

Connect Sun, Mac, laptop or PC (USB) computers to your KVM switch using these neat, intelligent interface cables, available in different lengths to suit your application. The USB and Sun interface cables deliver high functionality multi platform KVM connectivity at low cost, and may be used with any PS/2 style KVM switch. Miniature 'keep alive' circuitry is molded into the cables to ensure problem free computer operation even if the KVM switch is powered off. An intelligent communications system enables the active circuitry within the cables to work in close partnership with Adder MP Matrix and 108 MP switches to provide enhanced functionality.

CC-USB	PS/2 (& Video) To USB (& Video) Convertor Cable, 6 foot	45.00
CC-USB-5M	PS/2 (& Video) To USB (& Video) Convertor Cable, 15 foot	69.00
CC-USB-10M	PS/2 (& Video) To USB (& Video) Convertor Cable, 32 foot	110.00

Aten SOHO Cable KVM Switches

Aten offers a broad line of cable KVM switch solutions geared toward the small office/home office (SOHO) user. These compact, durable cable KVM switches feature audio support (A series) and multiplatform support (U series). The plug and play design helps to quickly and easily deploy these cable KVM switches.

CS-62	Aten SOHO Cable KVM Switch 2 Ports	34.95
CS-62A	Aten SOHO Cable KVM Switch 2 Ports with Audio	38.95
CS-64A	Aten SOHO Cable KVM Switch 4 Ports with Audio	95.00
CS-62U	Aten SOHO Cable KVM Switch 2 Ports with Audio / Multiplatform	44.95
CS-64U	Aten SOHO Cable KVM Switch 4 Ports with Audio / Multiplatform	95.95

Aten SOHO Desktop KVM Switches

Aten offers an extensive line of SOHO desktop KVM solutions. These 2 and 4 port desktop KVM switches are perfect for saving space on confined desktops. The U series features a built-in 2 port USB hub which is great for connecting USB peripherals. The CS-84A switch supports PS/2 keyboards and mice and the CS-102U and CS-104U switches feature USB keyboard and mouse connectors.

CS-84A	Aten Desktop KVM Switch 4 Port PS/2	139.95
CS-102U	Aten Desktop KVM Switch 2 Port USB Multiplatform	79.95
CS-104U	Aten Desktop KVM Switch 4 Port USB Multiplatform	149.95

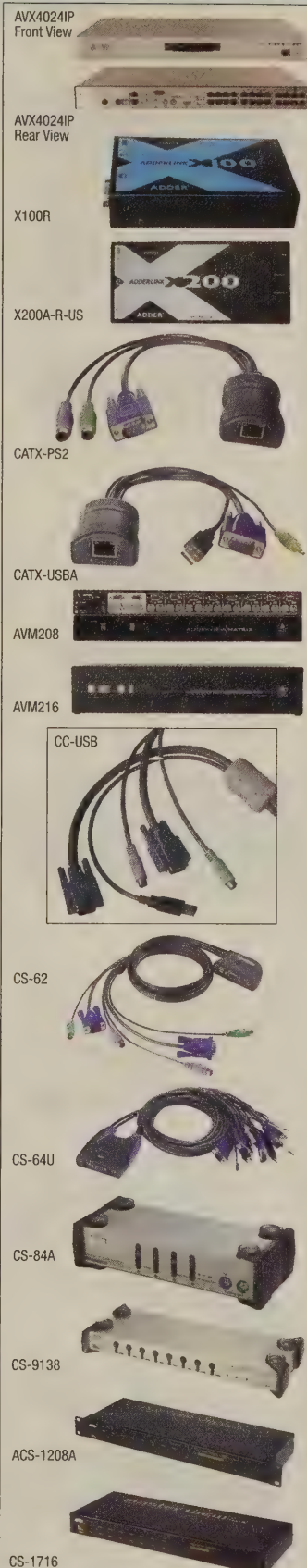
Aten Rack Mountable KVM Switches

Aten's premier line of rack mount business KVM solutions provide the user with a robust, expandable KVM solution. These KVM switches are perfect for use in server rooms, data centers and test labs. Each switch features three modes of KVM switching; on screen display (OSD), hotkeys and pushbuttons. Additionally the auto-scanning feature allows fast access to a specific PC.

CS-9138	Aten Rack Mount 8 Port KVM Switch PS/2	249.00
ACS-1208A	Aten Rack Mount 8 Port KVM Switch PS/2	399.00
ACS-1216A	Aten Rack Mount 16 Port KVM Switch PS/2	549.00
CS-1708	Aten Rack Mount 8 Port KVM Switch USB - Multiplatform	429.00
CS-1716	Aten Rack Mount 16 Port KVM Switch USB - Multiplatform	649.00



For more useful information go to....
www.L-com.com/Resources



Same day shipping

Orders placed before 4:00 EST
 ship the same day.

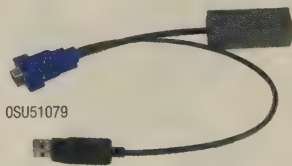




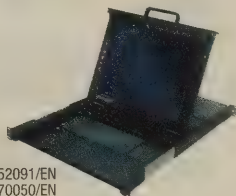
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OSU51078



OSU51079

OSU52091/EN
OSU70050/EN

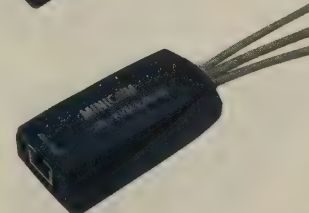
ODT50002A



ODT23001A



ODT23008A



ODT23010A

Item #

Description

List Price

Smart CAT5 Switches

Single and Multi user 8, 16 and 32 port analog or digital Smart CAT5 switch KVM systems, for rack environments. The Smart IP devices (216 IP/232 IP/116IP) give secure, BIOS level access and control for up to 32 servers; for both local and remote access over LAN, WAN or Internet to multiple servers at the rack. The switches are compact and rackmountable.

Smart 108/116 - Single User Analog CAT5 Switches

OSU22081A	SMART 108, 1 Local User Controls 8 Ports	395.00
OSU22082A	SMART 108, 1 Local User Controls 16 Ports	595.00

Smart 216/232 - Multi-User KVM Switches for Rack Environments

The Smart 216/Smart 232 gives secure, BIOS level access and control of up to 32 servers in a rack with two KVM local user. Rackmountable, 1U sized switch with innovative ROC dongle technology.

OSU22090A	SMART 216, 2 Local Users Control 16 Ports	990.00
OSU22091A	SMART 232, 2 Local Users Control 32 Ports	1890.00

Smart 116 IP - Single User, Digital KVM Switch

The Smart 116 IP gives secure, BIOS level access and control of up to 16 servers in a rack either remotely or locally. Rackmountable, 1U sized switch with innovative ROC dongle technology.

OSU70030A	SMART 116 IP, Remote Users + Local User Control 16 Ports	1450.00
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SMART 216 IP / SMART 232 IP - Multi-User, Remote Access KVM Switch for Rack Environments

The Smart 216 IP/232 IP gives secure, BIOS level access and control of up to 32 servers in a rack with two KVM remote users, one local user and two serial users over IP simultaneously. Rackmountable, 1U sized switch with innovative ROC dongle technology.

OSU70036A	SMART 216 IP, 2 Remote KVM Users + 1 Local User Control 16 Ports + 2 Serial Over IP	2495.00
OSU70037A	SMART 232 IP, 2 Remote KVM Users + 1 Local User Control 32 Ports + 2 Serial Over IP	3495.00

Remote Interface Modules - Dongle Technology Directly Connects to Each Server in Rack

Use one ROC for each server connected to a Smart KVM switch.

OSU51079	ROC USB (Max Server to Switch Distance 30m / 98ft)	79.00
OSU51079/8	Bulk Kit of 8 ROC USB Units (OSU51079)	590.00
OSU51078	ROC PS/2 (Max Server to Switch Distance 30m / 98ft)	59.00

SMARTTRACK 116 - LCD KVM Drawer - For Those who Need the Console and the Switch Together

Rackmountable KVM drawer with an integrated CAT5 KVM switch with 16 ports. Gives secure, BIOS level access and control of up to 16 servers in a rack locally. 1U sized switch with innovative ROC dongle technology.

OSU52091/EN	SMARTTRACK 116, 17 inches	1990.00
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Note: Add one ROC for each server.

SMARTTRACK 116 IP - LCD KVM Drawer - For Those who Need the Console and the Switch Together

Rackmountable KVM drawer with an integrated CAT5 KVM switch with 16 IP ports. Gives secure, BIOS level access and control of up to 16 servers in a rack either remotely or locally. 1U sized switch with innovative ROC dongle technology.

OSU70050/EN	SMARTTRACK 116 IP, 17 inches	2890.00
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Note: Add one ROC for each server.

Smart IP Access - Extend KVM Control Over IP

Cost-effective desktop IP device for remote out-of band KVM access to servers and network devices. Designed for compatibility with your installed KVM switch base and comes with configuration definitions for all Minicom and 3rd party KVM switches. It also provides a Serial port for remote management of Serial devices such as routers, headless servers, and power management devices.

OSU51068A	SMART IP Access - KVM IP Gateway, Local + Server	499.00
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PX - Compact, Remote KVM Access, Directly to Your Computer or Server

Compact, cost-effective, single server IP Gateway for non-blocking access to servers. Supports Virtual Media, includes 60cm KVM cable. Option for 2m cable. Option to use PoE or external power adapter. Includes rackmount.

OSU70028	PX USB (Includes 60cm USB Cable. Power from PoE Switch)	545.00
OSU70042	Power Adapter PX USB (When no PoE Switch Available)	19.00
5CB00600	USB Cable for PX USB, 2m	39.00
5CB00611	PS/2 Cable for PX PS/2, 2m)	39.00
OSU70033A	PX Serial	295.00

KVMS - Superior KVM Extension and Full Serial Control

High-end KVM extender with superior video and full Serial support. Extend your KVM console up to a distance of 300m/1000 ft away from your computer over standard, flexible, easy-to-install, Cat 5 UTP/FTP cabling.

ODT50002A	Keyboard Video Mouse & Serial Extender (Up to 300m/1000 ft)	595.00
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Smart Cat 5 KVM Extender - Control Your Computer from up to 110m/360 ft Away

Enables a KVM console to be distanced from a computer or KVM switch by up to 110m/360 ft. The dual user switch provides both local and remote workstation control over a single computer or KVM switch. It allows 2-port KVM switching for the remote workstation between the extended KVM switch and a local PC.

ODT23001A	Cat 5 SMART KVM Extender PS/2 (With Integrated Local Port + 2 Port KVM Switch)	295.00
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Mini KVM Extender - Secure, Flexible, Affordable Way to Extend Your Distance

Extends the functionality of a PS/2 console from your computer or KVM switch up to 70m/230 ft away over Cat 5/6/7 cable. The USB version can control USB based servers from a traditional PS/2 keyboard and mouse and standard VGA monitor.

ODT23008A	Mini KVM Extender, PS/2	239.00
ODT23010A	Mini KVM Extender, USB	295.00

Item #	Description	List Price
Audio Video Display System (AVDS) - Distribute Multimedia Content to Multiple Digital Signage Displays		
Distribute high quality mono audio and video over Cat 5 FTP shielded cable, to any type of display device. Max distance 110m/360 ft. The system includes a Transmitter or a Broadcaster connected to the player, Remote units connected to each display and Line Splitters that multiply the signals and are connected between the Transmitter/Broadcaster and Remotes.		
OVS22038A	Cat 5 AVDS Transmitter, (Single Port Cat 5 System Output) Audio-Video	295.00
OVS22014A	Cat 5 AVDS Broadcaster, (8 Port Cat 5 System Output) Audio-Video	345.00
OVS22015A	Cat 5 AVDS Line Splitter, (Single Port Cat 5 System Output) Audio-Video	245.00
OVS23009	Cat 5 AVDS Remote* (110m / 360 ft) Audio-Video	139.00
OVS22036A	Cat 5 AVDS Power Remote, (Improved Audio Quality, External Power Supplied) Audio-Video	149.00

Video Display System (VDS) - Distribute Multimedia Content to Multiple Digital Signage Displays

Distribute high quality video over Cat 5 UTP/ FTP to any type of display device. Max distance 250m/820 ft. The system includes Broadcaster connected to the player, Remote unit connected to the display and Line Splitter that multiplies the signals and is connected between the Broadcaster and Remote.

OVS22011A	Cat 5 VDS Broadcaster, (8 Lines Cat 5 System Output), Video	345.00
OVS22012A	Cat 5 VDS Line Splitter, (8 Lines Cat 5 System Output), Video	245.00
OVS23022	Cat 5 VDS Remote Dual Screen, Video	99.00
OVS21008A	UTP VDS Remote Long Range 250m / 820 ft, Video	249.00

UTP VGA Splitter - Simultaneous Real-Time Video Broadcasting to Multiple Remote Monitors

Split your computer VGA to 2 or 4 screens over Cat 5 UTP. Max distance 250m/820 ft. Simple Plug and Play installation.

OVS22002	UTP VGA Splitter Central, 2 Ports, Video	189.00
OVS22004	UTP VGA Splitter Central, 4 Ports, Video	239.00
OVS21002	UTP VGA Splitter Remote, (110m / 360 ft), Video	149.00
OVS21004	UTP VGA Splitter Remote Long Range 250m / 820 ft, Video	209.00

Cat 5 AV Splitter - Simultaneous Real-Time Video Broadcasting to Multiple Remote Monitors

Split your computer VGA & Stereo Audio to 2 or 4 screens over Cat 5 UTP. Max distance 100m/360 ft. Simple Plug and Play installation.

OVS22007	Cat 5 AV Splitter Central, 2 Ports, Audio-Video	239.00
OVS22009	Cat 5 AV Splitter Central, 4 Ports, Audio-Video	279.00
OVS21007	Cat 5 AV Splitter Remote, (110m / 360 ft), Audio-Video	199.00

Cat 5 Video Data Transmitter (VDT) - Transmit Video Content and Control RS232 Devices

The dual function video and RS-232 extender enables you to transmit high quality video and control remote video applications over Cat 5 cable via bi-directional Serial control. 1 to 1 (VGA + RS232, Tx, Rx only).

OVS23003A	Cat 5 Video Data Transmitter, (110m / 360 ft)	369.00
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Cat 5 Audio Video Extender - Extend Plasma or Display Device up to 110m/360 ft from Player

The AV Extender player-to-plasma/LCD extension system transmits high quality audio and video up to 110m/360 ft over Cat 5 cable. 1 to 1 (VGA + Audio).

OVS22037A	Cat 5 Audio-Video Extender	445.00
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RS232 Extender - Control RS232 Device over 1000m/3300 ft with Cat 5 Cable

The full-duplex, hardware based RS232 Extender allows remote control of any RS232 device over Cat 5 cable, up to 1000m/3300 ft.

OVS22013A	Cat 5 RS232 Extender (Up to 1000m/3300 ft, Provided with One Power Supply)	189.00
OVS24001A	Power Supply 12V DC Kit (Additional Power Supply Required for more than 300m / 1000 ft)	17.00

CatLinc - Convert Video and Audio Signals Using Common Cat 5 Cable

Extend video 110m/360 ft over Cat 5 cable (VGA).

CATLINC SVID	S-Video to Cat 5, Transmitter and Receiver Included	375.00
CATLINC VGA	VGA to Cat 5, Transmitter and Receiver Included	375.00
CATLINC VGA-L	VGA to Cat 5, Transmitter and Receiver with Local Monitor Pass Through	375.00
CATLINC VID	Composite Video and Audio to Cat 5 Transmitter / Receiver	375.00
CATLINC HD	Component Video to Cat 5 Transmitter / Receiver	375.00

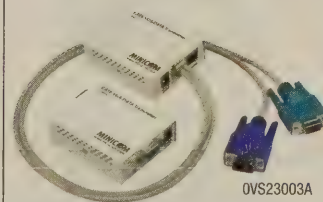
New



OVS22002
OVS22004



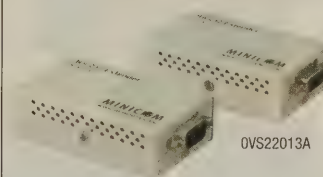
OVS21002
OVS21004



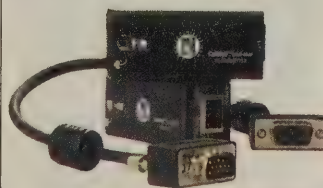
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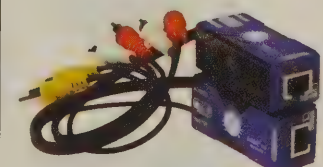
OVS22037A



OVS22013A

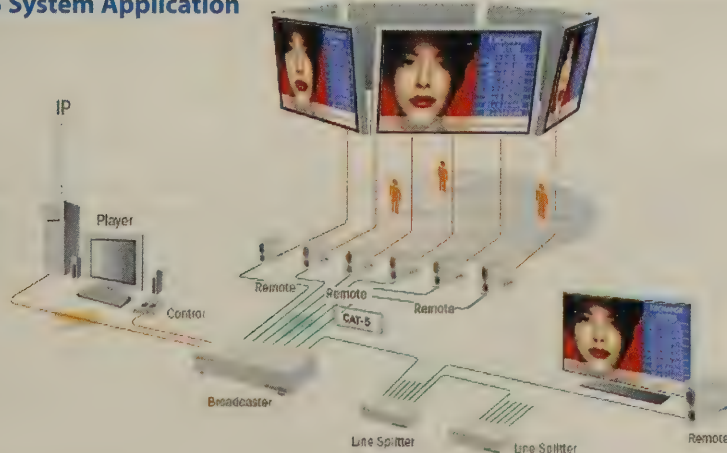


CATLINC VGA



CATLINC VID

VDS/AVDS System Application



Tips
Easy-to-understand tips to help with some of today's popular product applications. L-com.com/Tips

L-com Global Connectivity



X2-Gold



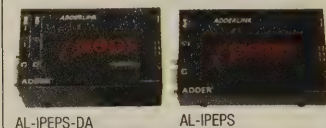
X100A-PS-2-P



X200-USB-P-US

X200A-USB-P-US
X200AS-USB-P-US

X-USB

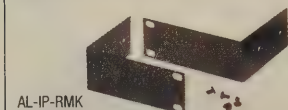


AL-IPEPS-DA

AL-IPEPS



AL-IP (Front and Rear Views)



AL-IP-RMK



AL-IP-RMK-DUAL

Item

Description

List Price

AdderLink X2 Series Cat5/5e/6 KVM Extenders

The AdderLink X2 range of KVM Extenders uses the latest technology to deliver perfect video pictures at high resolutions over long distances. Using CATx Cable (5,5e,6,7) the X2 enables you to extend KVM signals up to 300m (1,000 feet). X2s are fitted with a range of advanced features that Adder has developed and enhanced over many years of building robust KVM extenders. Flash upgradeable firmware ensures that the latest upgrades and product enhancements can be readily supported via simple downloads. Great attention has also been paid to the quality of the audio signals to avoid the annoying clicks found on some other KVM extension products. The X2-Gold supports high fidelity bi-directional stereo audio and audio signals are transmitted digitally using 16 bit, 44.1kHz sampling to ensure a low noise level. Dual access versions provide local KVM access at the computer for local as well as remote control.

X2-GOLD	AdderLink X2 Gold KVM Extender (Pair)	697.50
X2-DA-GOLD	AdderLink X2 Gold Dual Access KVM Extender (Pair)	787.50
X2-SILVER	AdderLink X2 Silver KVM Extender (Pair)	580.50
X2-DA-SILVER	AdderLink X2 Silver Dual Access KVM Extender (Pair)	670.50

AdderLink X2-MultiScreen Cat5/5e/6 KVM Extenders

The AdderLink X2-MultiScreen extends two or four very high quality video signals, together with keyboard and mouse signals, multiple RS232 signals and high quality audio up to 300m/1000ft over Category 5 or higher twisted pair cable. In addition to this functionality, the X2-MultiScreen provides a local feed through port for control of computers at the local computer end. Based on the technology of the hugely successful AdderLink X2-Gold, the AdderLink X2-MultiScreen provides industry-leading rack densities and is a modular and flexible solution. The X2-MultiScreen is ideal for use in industrial process and control room environments, financial dealing rooms, emergency services control rooms, broadcast production studios, security environments or any multiple touch screen applications. Order online today!

X2-MULTI-2	AdderLink X2 Dual Multiscreen KVM Extender (Pair)	1075.50
X2-MULTI-4	AdderLink X2 Quad Multiscreen KVM Extender (Pair)	2065.50

AdderLink X Series X-100 Extenders

AdderLink X100s have been designed for use in applications where keyboard, mouse, high quality video and audio needs to be extended no more than 100m (330 feet) over Category 5 or higher UTP cable. The AdderLink X100s provide industry leading video clarity, audio quality and compatibility for PS/2 and USB computers.

X100-PS-2-P	AdderLink PS/2 KVM Receiver without Audio	349.00
X100A-PS-2-P	AdderLink PS/2 KVM Receiver with Audio	399.00

AdderLink X Series X-200 Extenders

Fully featured USB keyboard, video and mouse extender with 44.1kHz digital stereo audio support for two computers. AdderLink X200s have been designed for use in applications where up to two computers can have their keyboard, video, audio and mouse control extended up to 300m (1000 feet) across Category 5 or higher UTP cable. The AdderLink X200 provides absolute real time keyboard and mouse performance along with hi-definition, hi-resolution video over a VGA interface.

X200-USB-P-US	AdderLink 100m (330 feet) Extender Pair, USB CAM, No Audio, No De-skew	390.00
X200A-USB-P-US	AdderLink 100m (330 feet) Extender Pair, USB CAM, Audio, No De-skew	540.00
X200AS-USB-P-US	AdderLink 300m (1000 feet) Extender Pair, USB CAM, Audio and De-skew	625.00

RoHS AdderLink X Series X-USB Extender

The AdderLink X-USB extends very high quality video, full speed USB and high quality audio up to 120m (390 feet) over Category 5 or higher UTP cable. The AdderLink X-USB has been designed to provide industry-leading video clarity, compatibility and high rack densities.

X-USB	AdderLink X-Series USB Extender Plus Stereo Audio	736.00
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AdderLink ipeps KVM Over IP

For Enterprise KVM solutions the AdderLink ipeps (IP Engine per Server) provides a non-blocking global solution by providing each computer with a dedicated KVM-via-IP engine. This can be enhanced by using the ADDER.NET Enterprise Management Software that provides a centralized and secure user access management interface. Where a KVM switch exists without KVM-over-IP functionality, the AdderLink ipeps is ideal for adding global management capabilities. Increasing numbers of computers are being used in remote, stand alone applications such as ATMs and digital signage play out devices. The incredibly small size of the AdderLink ipeps makes it perfect for remote management and control of dispersed computers, meaning that many tasks that would have required an expensive site visit can now be done from anywhere.

AL-IPEPS	AdderLink ipeps KVM over IP	449.00
AL-IPEPS-DA	AdderLink ipeps KVM over IP (with Local Access)	699.00

AdderLink IP KVM Over IP

Manage your computers from anywhere in the world with the high-performance AdderLink IP. The AdderLink IP only requires a KVM (keyboard, video, mouse) connection to your computer or KVM switch and doesn't need any custom software to be loaded on your servers. The AdderLink IP is fully compatible with VNC (Virtual Network Computing) and Java based web browsers and doesn't require the purchase of extra software 'seat' licenses. Features video modes up to 1280 x 1024 x 75Hz, video captured at 24 bits per pixel, adaptive color depth to match link speed and security features including AES 128 encryption, RSA 2048 authentication, auto logout after selectable inactive period and IP address restriction. Ships with KVM cable, universal power supply and installation CD. Rack mounting kits sold separately. Covered by a 2-year manufacturer's warranty.

AL-IP	AdderLink IP KVM Extender	895.50
AL-IP-GOLD	AdderLink IP Gold KVM via IP with DVI and USB	1379.00
AL-IP-RMK	AdderLink IP KVM Extender Rack Mount Kit	71.10
AL-IP-RMK-DUAL	AdderLink IP KVM Extender Dual Rack Mount Kit	99.00



Item #	Description	List Price
AdderLink AV200 Series Audio/Video Extenders		
The AdderLink AV200 Series is a range of audio visual extenders delivering high video resolutions, superb quality audio and RS232 up to 300m/1000ft using standard CATx cable (x=5,5e,6,7). The innovative design allows for flexible audio-visual distribution, management, control and interaction with the display devices which can be expanded to grow in line with project developments. Consisting of 5 interchangeable units, the AdderLink AV200 Series makes the design of digital signage and narrow casting applications cost effective, flexible and easy to plan.		
FEATURES		
- Resolutions of 1600x1200 are achievable at 200m (650ft) and 1280x1024 at 300m (1000ft). - Included with AV200 transmitters, the Display Management Software gives users control and interaction with display devices over integrated RS232 ports, allowing for bi-directional and automated communication with individual screens, groups of screens or all screens at the same time. - The AdderLink AV units can apply a high level of signal compensation and brightness correction that ensures the image is crisp, clear and bright over long distances. - Digital audio transmission delivers high fidelity; click-less audio for speakers and microphones. - The AdderLink AV201R has integrated skew correction with a 300MHz bandwidth, meaning that it is more than powerful enough to counteract the negative effects of the skew. - Both transmitter and receiver units can be used standalone or can be mounted into a 3U chassis, (up to 16 200T, 200R and 201T units or 8 204T and 208T units).		
AV200P-US	AdderLink AV200 Transmitter and Receiver Pair	491.99
AV200R-US	AdderLink AV200 Receiver	267.90
AV200T-US	AdderLink AV200 Transmitter	222.90
AV201R-US	AdderLink AV201 Receiver	385.00
AV204T-US	AdderLink AV204 Transmitter	515.50
AV208T-US	AdderLink AV208 Transmitter	605.00



AdderLink AV Series Audio/Video Extenders

The AdderLink AV Series is a range of audio visual extenders delivering high video resolutions and superb quality audio up to 300m (1,000 ft) using standard CAT5, 5e, 6 or 7 cables. Designed for use in Digital Signage applications, the innovative design allows for flexible distribution that can grow in line with project developments and ensures direct delivery of crystal clear communication to consumers at the point of decision. The AdderLink AV Series avoids the prohibitive costs of fiber optic cabling, displays with built in CPUs or locating a CPU next to each screen. The AdderLink AV Series consists of 4 interchangeable units.

AV100T-US	AdderLink 1 Port AV Transmitter	175.50
AV100R-US	AdderLink 1 Port AV Receiver	220.50
AV100P-US	AdderLink 1 Port AV Receiver and 1 Port Transmitter (Pair)	379.00
AV104T-US	AdderLink 4 Port AV Transmitter	295.00
AV101R-US	AdderLink 2 Port AV Receiver	265.50

Premium 2 and 4 Port AdderView GEM Series KVM Switches

The GEM series from Adder offers premium performance at economical prices. They feature 2 and 4 port models with bright green 7-segment display as well as sturdy metal construction. Standard PS/2 connectors (Mini DIN 6 for keyboard and mouse, HD15F for monitor) make connections simple. The AdderView GEM supports video signals up to 1900 x 1440 screen resolution. Units use flash upgradeable processors for future firmware upgrades. This protects your investment should new KVM peripherals come along. Fully DDC/DDC1/DDC2 compliant for use with latest monitor types. Self-powered, two year manufacturer's warranty.

AVG2-KVM	2 Port AdderView GEM KVM Switch	121.00
AVG4-KVM	4 Port AdderView GEM KVM Switch	141.00

PLANET KVM SWITCH SELECTION CHART				
	VIDEO RESOLUTION	MAX DISTANCE	NUMBER OF PC PORTS	CHANNEL SELECTION METHOD
PT201-KVM	1920 x 1440	5 Meters	2	HK - PB
PT401-KVM	1920 x 1440	5 Meters	4	HK - PB
PT800-KVM	1920 x 1440	5 Meters	8	HK - PB - OSD

Channel Selection Key: HK = Hot Key, PB = Push Button, OSD = On Screen Display

Planet 2 and 4 Port KVM Switches

Planet's KVM switches are designed to give users control of multiple computers using just one keyboard, mouse and video display. The Planet KVM switches support VGA, SVGA and MultiSync monitors at up to 2048 x 1536 resolution. These KVM Switches utilize advanced microprocessor emulation to intelligently manage each KVM port. This allows simultaneous boot-up of all the attached computers.

PT201-KVM	Planet 2 Port KVM Switch	39.00
PT401-KVM	Planet 4 Port KVM Switch	59.00

Planet 8 Port Rack Mountable KVM Switch

Planet's 8 port KVM switch is designed to give users control of multiple computers using just one keyboard, mouse and video display. The Planet KVM switches support VGA, SVGA and MultiSync monitors at up to 1920 x 1440 resolution. Up to 3-tiers of KVM switches can be connected together to enable control of additional computers. The PT800-KVM features an on-screen display (OSD) providing a friendly interface for naming and selecting a specific PC, eight character password protection, and a search by computer name feature assists when managing a large number of computers. Includes a 2-year manufacturer's warranty.

PT800-KVM	Planet 8 Port Rack Mountable KVM Switch	199.00
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Planet Category 5E KVM Extender (1 Sender and 1 Receiver Unit)

The KVM-E500 from Planet extends keyboard, monitor and mouse signals up to 500 feet over Cat5/E5E cabling. This robust extender is guaranteed to provide high video resolution to 1280 x 1024 and features convenient plug and play installation. The KVM-E500 is composed of two units: Transmitter and Receiver. The Transmitter can directly attach to a computer or a KVM switch. The Receiver located at the remote site receives the KVM signals and allows user control of a local monitor, mouse and keyboard.

KVM-E500	Planet Category 5E KVM Extender, Transmitter and Receiver Units	199.00
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AVG Series Features

- No power supply necessary
- Shorter runs to 5m
- Flash upgradeable firmware protects your investment



AVG4-KVM (Front View)



AVG4-KVM (Rear View)

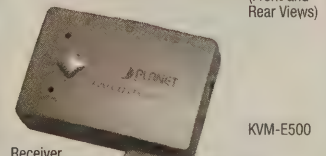


PT201-KVM

PT401-KVM



PT800-KVM
(Front and
Rear Views)



KVM-E500



Transmitter

Tips
Easy-to-understand tips to help with some of today's popular product applications. L-com.com/Tips



Coaxial Cabling Tutorial

■ What is Coaxial Cabling?

A coaxial cable is a two conductor electrical cable consisting of a center conductor and an outer conductor with an insulating spacer between the two.

■ How is Coaxial Cabling used?

Primarily, coaxial cables are used for the transmission of Radio Frequency energy. The system offers tight control over electrical impedance. This yields excellent performance at high frequencies and superior EMI control/shielding.

■ Where is Coaxial Cabling used?

A broad range of applications exist for coaxial cabling. The two primary impedance values of 50 and 75 Ohms determine specific applications with 50 Ohms primarily used in data signal applications and 75 Ohms used in video signal applications.

Coaxial Cabling Terms

Attenuation (Insertion Loss): Loss of power. Attenuation is usually measured in dB loss per length of cable (ex. 31.0 dB/100Ft.). Attenuation increases as frequency increases.

Bend Radius: The amount of radius a cable can bend without any adverse effects.

Center Conductor: The solid or stranded wire in the middle of the coaxial cable. The conductor diameter is measured by the American Wire Gauge (AWG).

Coaxial Adapter: A device used to change one connector type to another or one gender to another (ex. BNC to SMA Adapter).

Coaxial Cable: A two conductor cylindrical transmission line typically comprised of a center conductor, an insulating dielectric material and an outer conductor (shielding). Coaxial cable can be flexible (typical to the assemblies found in this catalog), semi-rigid or rigid in nature.

Coaxial Connector: The interconnection device found at each end of a coaxial cable assembly. There are many common types of coaxial connectors such as: BNC, SMA, SMB, Type F, etc.

Dielectric: The insulating material that separates the center conductor and shielding.

Electromagnetic Interference (EMI): Electrical or electromagnetic energy that disrupts electrical signals.

Frequency: Number of times a periodic action occurs in one second. Measured in Hertz.

Impedance: The opposition to the flow of alternating or varying current. Measured in Ohms. Two common impedance values are 50 Ohms used primarily for data and 75 Ohms used to transmit video signals.

Insertion Loss: A measurement of attenuation determined by the system output before and after the connection of a cable and/or device.

Jack: The female connector usually containing a center socket.

Microwave Frequencies: Microwave frequencies range from Ultra-High Frequency (UHF) .3-3GHz, Super High Frequency (SHF) 3-30GHz to Extremely High Frequency (EHF) 30-300GHz.

MIL-C-17: MIL-C-17 is a specification document that has been used since the 1940s to standardize the physical and electrical characteristics of coaxial cables. There is no longer any control of RG specifications so cables may perform differently than the cables that adhere to MIL-C-17.

Plug: The male connector usually containing a center pin.

RF (Radio Frequency): A frequency band from 3 MHz to 3 GHz. Primarily used for transmission of radio and television signals.

RG/U: A designation that originated with a US Government specification. No longer in effect. Currently used as a general reference. (R=Radio Frequency, G=Guide, U=Universal Specification). Letters that appear before the /U characters (i.e. A, B or C) means a specification modification or revision. For instance, it is common in the CB industry to see the designation RG-58A/U. The original RG-58/U coaxial cable had a solid center conductor. The "A" modification replaced the solid center conductor with a more flexible stranded center conductor (that is highly recommended for use in mobile installations). Other designators often seen are: A = Modification to the Solid Core Material Specification, B = Modification to the Outer Jacket Specification, C = Modification of the Dielectric Insulator Specification. These designators are not precise and specifications may vary from one vendor to another.

Shielding: Conductive envelope made of wires or metal foil that covers the dielectric and the center conductor.

Twinaxial: An offshoot of coaxial cabling. Two center conductors with one dielectric and braided shielding.

Velocity of Propagation (VP): Usually expressed as a percentage, VP is the transmission speed of electrical energy in a determined length of cable compared to the speed of light.

VSWR (Voltage Standing Wave Ratio): The ratio of the maximum effective voltage to the minimum effective voltage measured along a RF transmission line. This value generally increases with frequency and higher values are not desirable.



For more useful information go to....
www.L-com.com/Resources

Common Applications for Coaxial Cable Assemblies

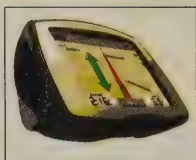


Entertainment Systems

Coaxial cable assemblies are used extensively to connect a wide variety of home and commercial entertainment products. Entertainment equipment such as monitors, TVs, camera's, recording equipment and broadcast equipment are interconnected using coaxial cables.

Common cable types: 75Ω - RG6 or RG59

Common connectors: BNC, F and RCA



GPS

Global Positioning Systems utilize coaxial cable for connections between receiving antennas and other related equipment.

Common cable types: 50Ω - RG58, RG174, RG188 or RG316

Common connectors: TNC, N, MCX, MMCX and SMA

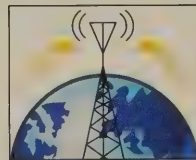


Video Systems

The transmission of a video signal from a video camera to a display monitor is typically through coaxial cable.

Common cable types: 75Ω - RG59, RG59A/U, RG59B/U or RG179

Common connectors: BNC, F and RCA

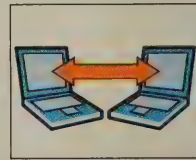


Telecom

The infrastructure of most telecommunication systems relies heavily on coaxial cabling. Cell towers, communications equipment and base station facilities are typical examples of coaxial cable interconnection applications.

Common cable types: 50Ω - RG58, RG223 and RG213

Common connectors: BNC, TNC and Type N



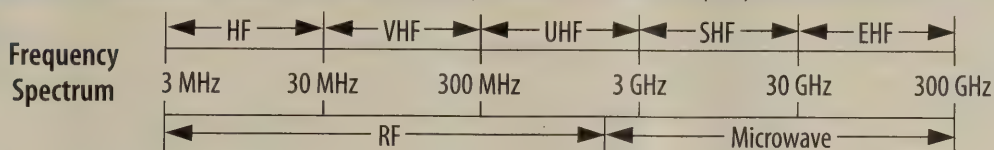
WAN/LAN

Wide Area Networks and Local Area Networks often utilize coaxial cable for equipment interconnections. In addition, reverse polarized connectors are found on many wireless antenna connections.

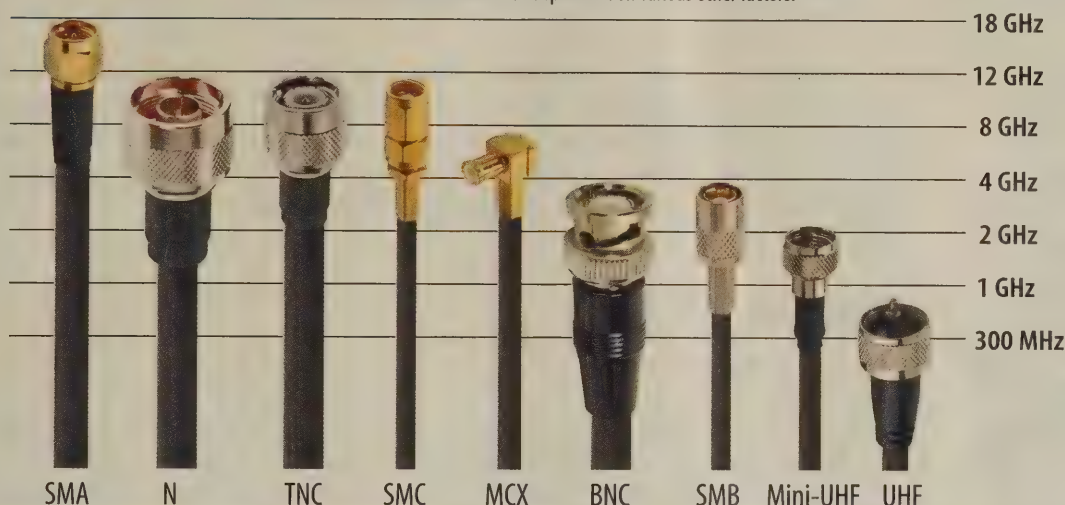
Common cable types: 50Ω - RG174, RG58

Common connectors: BNC

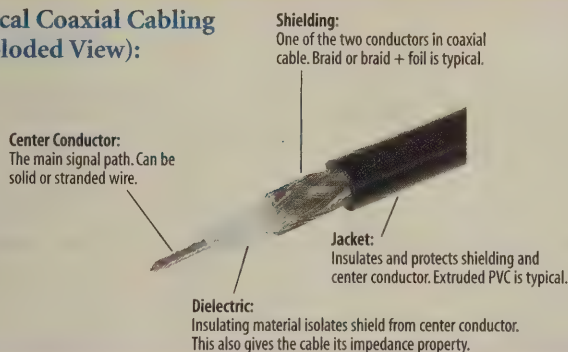
Frequency Band Data Coaxial products listed in this catalog are generally intended for use in the RF frequency band as illustrated here.



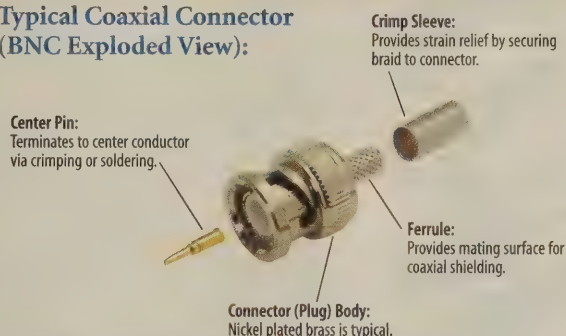
Connector Interface Frequency Chart This chart illustrates the upper frequency limit of various interface types only. Actual frequency limits of cable assemblies are dependent on various other factors.



Typical Coaxial Cabling (Exploded View):

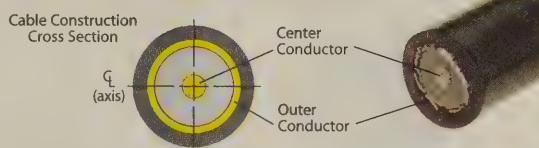


Typical Coaxial Connector (BNC Exploded View):



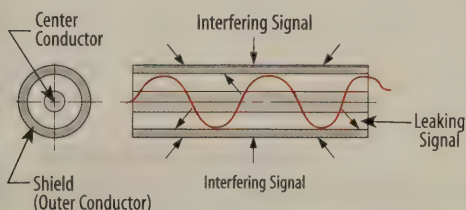
Understanding Coaxial Cable

Coaxial is a term derived from the construction of the cable, as illustrated here. In a coaxial cable an electrical impulse signal is transmitted along the cable length between the center conductor and the outer conductor. The center conductor and the outer conductor share the same center line or axis hence the term coaxial.



Shielding Effectiveness is the relative ability of a shield to screen out undesirable interference. In coaxial cable, the outer conductor provides a shield to keep interfering signals from getting in and to keep signals from leaking out to become undesirable interference for nearby devices. Shielding Effectiveness is measured in dB with higher values indicating better shielding properties. The table below illustrates the relative

shielding properties of various shielding types. Notice as the shielding density increases there is a correlated increase in the shielding effectiveness value. The best shielding effectiveness value can be found in a rigid coaxial cable due to the solid tube construction of the outer jacket. In this type of cable the limiting factor for shielding effectiveness is the quality of the connector attachment.



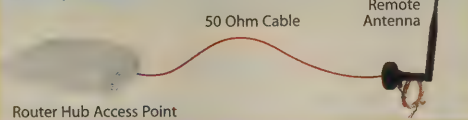
Shielding Type			
Single Braid Shield (95% coverage)	Single Braid Shield (60%) + Foil Wrap (100%)	(2) Braids (60%) + (2) Foil Wraps (100%)	Conformable Cable
Approximate Shielding Effectiveness Value			
-55dB	-90dB	-110dB	-150dB



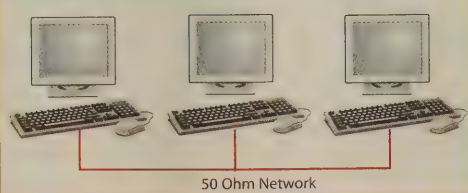
When is 50 Ohm coaxial cable used?

The primary use of a 50 Ohm coaxial cable is transmission of a data signal in a two-way communication system. Some common applications for 50 Ohm coaxial cable are computer Ethernet backbones, wireless antenna feed cables, GPS (Global Positioning Satellite) antenna feed cables and cell phone systems. The cable assemblies offered in this section cover the most common RG style cables and connector interfaces that are used in these applications.

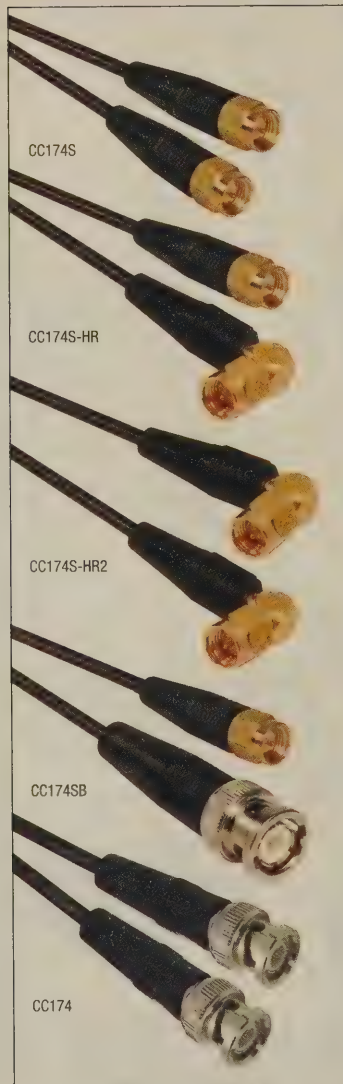
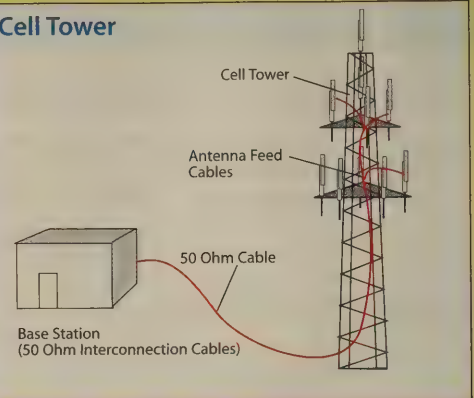
LAN / WAN



Ethernet Network



Cell Tower



Item #	Description	1-9	10-24	25-99	100-249	250-499
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RG174/U - 50 Ohm Coaxial Cables with SMA and BNC Connectors and Molded Strain Relief Boots

L-com now offers 50 Ohm, SMA RG174/U coaxial cable assemblies with rugged molded strain relief boots that protect against severe cable bends at the cable/connector egress point. This new L-com exclusive RG174/U molded boot design is a hard to find feature that most coaxial cable manufacturers do not offer. Additionally, L-com stocks 10 standard lengths from .5 to 10 ft ready for immediate delivery.

RG174/U		NOMINAL ATTENUATION		
		MHz	db/100 ft	db/100m
	Center Conductor: 26 (7x34) AWG bare copper covered steel	50	5.8	19.0
	Shielding: Tinned copper braid (90% coverage)	100	8.4	27.6
	Insulation: Polyethylene	200	12.5	41.0
	Jacket: Black PVC	400	19.0	62.3
	Operating Temperature: -40°C - +75°C	1000	34.0	111.5

✓RoHS RG174/U - 50 Ohm Coaxial Cables with Two Inline SMA Plugs and Molded Strain Relief Boots

CC174S-05	RG174 Cable, SMA Male / Male, 0.5 ft	18.00	16.92	15.84	14.76	13.68
CC174S-1	RG174 Cable, SMA Male / Male, 1.0 ft	18.15	17.06	15.97	14.88	13.79
CC174S-1.5	RG174 Cable, SMA Male / Male, 1.5 ft	18.30	17.20	16.10	15.01	13.91
CC174S-2	RG174 Cable, SMA Male / Male, 2.0 ft	18.45	17.34	16.24	15.13	14.02
CC174S-2.5	RG174 Cable, SMA Male / Male, 2.5 ft	18.60	17.48	16.37	15.25	14.14
CC174S-3	RG174 Cable, SMA Male / Male, 3.0 ft	18.75	17.63	16.50	15.37	14.25
CC174S-4	RG174 Cable, SMA Male / Male, 4.0 ft	19.05	17.91	16.76	15.62	14.48
CC174S-5	RG174 Cable, SMA Male / Male, 5.0 ft	19.35	18.19	17.03	15.87	14.71
CC174S-7.5	RG174 Cable, SMA Male / Male, 7.5 ft	20.10	18.89	17.69	16.48	15.28
CC174S-10	RG174 Cable, SMA Male / Male, 10.0 ft	20.85	19.60	18.35	17.10	15.85

✓RoHS RG174/U - 50 Ohm Coaxial Cables with Inline SMA to Right Angle SMA Plugs & Molded Strain Relief Boots

CC174S-05HR	RG174 Cable, SMA Male / 90° Male, 0.5 ft	21.50	20.21	18.92	17.63	16.34
CC174S-1HR	RG174 Cable, SMA Male / 90° Male, 1.0 ft	21.65	20.35	19.05	17.75	16.45
CC174S-1.5HR	RG174 Cable, SMA Male / 90° Male, 1.5 ft	21.80	20.49	19.18	17.88	16.57
CC174S-2.5HR	RG174 Cable, SMA Male / 90° Male, 2.5 ft	22.10	20.77	19.45	18.12	16.80
CC174S-5HR	RG174 Cable, SMA Male / 90° Male, 5.0 ft	22.85	21.48	20.11	18.74	17.37

✓RoHS RG174/U - 50 Ohm Coaxial Cables with Two Right Angle SMA Plugs and Molded Strain Relief Boots

CC174S-05HR2	RG174 Cable, SMA 90° Male / 90° Male, 0.5 ft	26.00	24.44	22.88	21.32	19.76
CC174S-1HR2	RG174 Cable, SMA 90° Male / 90° Male, 1.0 ft	26.15	24.58	23.01	21.44	19.87
CC174S-1.5HR2	RG174 Cable, SMA 90° Male / 90° Male, 1.5 ft	26.30	24.72	23.14	21.57	19.99
CC174S-2.5HR2	RG174 Cable, SMA 90° Male / 90° Male, 2.5 ft	26.60	25.00	23.41	21.81	20.22
CC174S-5HR2	RG174 Cable, SMA 90° Male / 90° Male, 5.0 ft	27.35	25.71	24.07	22.43	20.79

✓RoHS RG174/U - 50 Ohm Coaxial Cables with Inline SMA to Inline BNC Plugs and Molded Strain Relief Boots

CC174SB-05	RG174 Cable, SMA Male / BNC Male, 0.5 ft	14.00	13.16	12.32	11.48	10.64
CC174SB-1	RG174 Cable, SMA Male / BNC Male, 1.0 ft	14.15	13.30	12.45	11.60	10.75
CC174SB-1.5	RG174 Cable, SMA Male / BNC Male, 1.5 ft	14.30	13.44	12.58	11.73	10.87
CC174SB-2.5	RG174 Cable, SMA Male / BNC Male, 2.5 ft	14.60	13.72	12.85	11.97	11.10
CC174SB-5	RG174 Cable, SMA Male / BNC Male, 5.0 ft	15.35	14.43	13.51	12.59	11.67
CC174SB-7.5	RG174 Cable, SMA Male / BNC Male, 7.5 ft	16.10	15.13	14.17	13.20	12.24
CC174SB-10	RG174 Cable, SMA Male / BNC Male, 10.0 ft	16.85	15.84	14.83	13.82	12.81

✓RoHS RG174/U - 50 Ohm Coaxial Cables with Two Inline BNC Plugs and Molded Strain Relief Boots

CC174-1	RG174 Cable, BNC Male / Male, 1.0 ft	7.00	6.58	6.16	5.74	5.32
CC174-1.5	RG174 Cable, BNC Male / Male, 1.5 ft	7.15	6.72	6.29	5.86	5.43
CC174-2	RG174 Cable, BNC Male / Male, 2.0 ft	7.30	6.86	6.42	5.99	5.55
CC174-2.5	RG174 Cable, BNC Male / Male, 2.5 ft	7.45	7.00	6.56	6.11	5.66
CC174-3	RG174 Cable, BNC Male / Male, 3.0 ft	7.60	7.14	6.69	6.23	5.78
CC174-4	RG174 Cable, BNC Male / Male, 4.0 ft	7.90	7.43	6.95	6.48	6.00
CC174-5	RG174 Cable, BNC Male / Male, 5.0 ft	8.20	7.71	7.22	6.72	6.23
CC174-7.5	RG174 Cable, BNC Male / Male, 7.5 ft	8.95	8.41	7.88	7.34	6.80
CC174-10	RG174 Cable, BNC Male / Male, 10.0 ft	9.70	9.12	8.54	7.95	7.37
CC174-12	RG174 Cable, BNC Male / Male, 12.0 ft	10.30	9.68	9.06	8.45	7.83
CC174-15	RG174 Cable, BNC Male / Male, 15.0 ft	11.20	10.53	9.86	9.18	8.51
CC174-25	RG174 Cable, BNC Male / Male, 25.0 ft	14.20	13.35	12.50	11.64	10.79

Did you know...

50 Ohm coaxial cables are primarily used with RF antennas and in older Ethernet networks?

Item #	Description	1-9	10-24	25-99	100-249	250-499
RG174/U		NOMINAL ATTENUATION				
		MHz	db/100 ft	db/100m		
		50	5.8	19.0		
		100	8.4	27.6		
		200	12.5	41.0		
		400	19.0	62.3		
		1000	34.0	111.5		
50 Ohm Impedance						

✓RoHS RG174/U - 50 Ohm Coaxial Cables with Inline BNC Plug to BNC Jack

CC174-MF-1	RG174 Cable, BNC Male / Female Bulkhead, 1.0 ft	14.50	13.63	12.76	11.89	11.02
CC174-MF-3	RG174 Cable, BNC Male / Female Bulkhead, 3.0 ft	15.10	14.19	13.29	12.38	11.48
CC174-MF-10	RG174 Cable, BNC Male / Female Bulkhead, 10.0 ft	16.20	15.23	14.26	13.28	12.31
CC174-MF-15	RG174 Cable, BNC Male / Female Bulkhead, 15.0 ft	17.50	16.45	15.40	14.35	13.30
CC174-MF-25	RG174 Cable, BNC Male / Female Bulkhead, 25.0 ft	20.50	19.27	18.04	16.81	15.58

✓RoHS RG174/U - 50 Ohm Coaxial Cables with Inline BNC to Right Angle BNC Plugs

CC174-1HR	RG174 Cable, BNC Male / 90° Male, 1.0 ft	10.15	9.54	8.93	8.32	7.71
CC174-1.5HR	RG174 Cable, BNC Male / 90° Male, 1.5 ft	10.30	9.68	9.06	8.45	7.83
CC174-2HR	RG174 Cable, BNC Male / 90° Male, 2.0 ft	10.45	9.82	9.20	8.57	7.94
CC174-2.5HR	RG174 Cable, BNC Male / 90° Male, 2.5 ft	10.60	9.96	9.33	8.69	8.06
CC174-3HR	RG174 Cable, BNC Male / 90° Male, 3.0 ft	10.75	10.10	9.46	8.82	8.17
CC174-4HR	RG174 Cable, BNC Male / 90° Male, 4.0 ft	11.05	10.39	9.72	9.06	8.40
CC174-5HR	RG174 Cable, BNC Male / 90° Male, 5.0 ft	11.35	10.67	9.99	9.31	8.63
CC174-7.5HR	RG174 Cable, BNC Male / 90° Male, 7.5 ft	12.10	11.37	10.65	9.92	9.20
CC174-10HR	RG174 Cable, BNC Male / 90° Male, 10.0 ft	12.85	12.08	11.31	10.54	9.77

✓RoHS RG174/U - 50 Ohm Coaxial Cables with Two Right Angle BNC Plugs

CC174-05HR2	RG174 Cable, BNC 90° Male / 90° Male, 0.5 ft	13.00	12.22	11.44	10.66	9.88
CC174-1HR2	RG174 Cable, BNC 90° Male / 90° Male, 1.0 ft	13.15	12.36	11.57	10.78	9.99
CC174-1.5HR2	RG174 Cable, BNC 90° Male / 90° Male, 1.5 ft	13.30	12.50	11.70	10.91	10.11
CC174-2HR2	RG174 Cable, BNC 90° Male / 90° Male, 2.0 ft	13.45	12.64	11.84	11.03	10.22
CC174-2.5HR2	RG174 Cable, BNC 90° Male / 90° Male, 2.5 ft	13.60	12.78	11.97	11.15	10.34
CC174-3HR2	RG174 Cable, BNC 90° Male / 90° Male, 3.0 ft	13.75	12.93	12.10	11.27	10.45
CC174-4HR2	RG174 Cable, BNC 90° Male / 90° Male, 4.0 ft	14.05	13.21	12.36	11.52	10.68
CC174-5HR2	RG174 Cable, BNC 90° Male / 90° Male, 5.0 ft	14.35	13.49	12.63	11.77	10.91
CC174-7.5HR2	RG174 Cable, BNC 90° Male / 90° Male, 7.5 ft	15.10	14.19	13.29	12.38	11.48
CC174-10HR2	RG174 Cable, BNC 90° Male / 90° Male, 10.0 ft	15.85	14.90	13.95	13.00	12.05

RG188A/U - 50 Ohm Coaxial Cables Hi-Temperature (200°C) with SMA, SMB, SMC and MCX Plugs

L-com carries a full line of RG188A/U cable assemblies with SMA, SMB, SMC and MCX connectors. RG188A/U is similar in size to RG174/U but utilizes a TFE insulator and outer jacket to achieve a high operating temperature. Right angle configurations are offered on the SMA and MCX connectors.

RG188A/U		- Center Conductor: 26 (7x34) AWG silver coated copper covered steel - Shielding: Silver coated copper braid (96% shield coverage) - Insulation: TFE Teflon - Jacket: White TFE taped - Operating Temperature: -70°C - +200°C VW-1 vertical flame test compliant	NOMINAL ATTENUATION					
			MHz	db/100 ft	db/100m			
			50 Ohm Impedance			50	5.6	18.4
						100	8.3	27.2
						200	12.0	39.4
						400	17.5	57.4
						1000	29.0	95.1

✓RoHS RG188A/U - 50 Ohm Hi-Temperature Coaxial Cables with Two Inline SMA Plugs

CCS188A-1	RG188 Cable, SMA Male / Male, 1.0 ft	15.00	14.40	13.80	13.20	12.60
CCS188A-1.5	RG188 Cable, SMA Male / Male, 1.5 ft	15.50	14.88	14.26	13.64	13.02
CCS188A-2	RG188 Cable, SMA Male / Male, 2.0 ft	16.00	15.36	14.72	14.08	13.44
CCS188A-2.5	RG188 Cable, SMA Male / Male, 2.5 ft	16.50	15.84	15.18	14.52	13.86
CCS188A-3	RG188 Cable, SMA Male / Male, 3.0 ft	17.00	16.32	15.64	14.96	14.28
CCS188A-4	RG188 Cable, SMA Male / Male, 4.0 ft	18.00	17.28	16.56	15.84	15.12
CCS188A-5	RG188 Cable, SMA Male / Male, 5.0 ft	19.00	18.24	17.48	16.72	15.96
CCS188A-7.5	RG188 Cable, SMA Male / Male, 7.5 ft	21.50	20.64	19.78	18.92	18.06
CCS188A-10	RG188 Cable, SMA Male / Male, 10.0 ft	24.00	23.04	22.08	21.12	20.16

✓RoHS RG188A/U - 50 Ohm Hi-Temperature Coaxial Cables with Inline SMA to Right Angle SMA Plug

CCSHR188A-1	RG188 Cable, SMA Male / 90° Male, 1.0 ft	17.00	16.32	15.64	14.96	14.28
CCSHR188A-1.5	RG188 Cable, SMA Male / 90° Male, 1.5 ft	17.50	16.80	16.10	15.40	14.70
CCSHR188A-2	RG188 Cable, SMA Male / 90° Male, 2.0 ft	18.00	17.28	16.56	15.84	15.12
CCSHR188A-2.5	RG188 Cable, SMA Male / 90° Male, 2.5 ft	18.50	17.76	17.02	16.28	15.54
CCSHR188A-3	RG188 Cable, SMA Male / 90° Male, 3.0 ft	19.00	18.24	17.48	16.72	15.96
CCSHR188A-4	RG188 Cable, SMA Male / 90° Male, 4.0 ft	20.00	19.20	18.40	17.60	16.80
CCSHR188A-5	RG188 Cable, SMA Male / 90° Male, 5.0 ft	21.00	20.16	19.32	18.48	17.64
CCSHR188A-7.5	RG188 Cable, SMA Male / 90° Male, 7.5 ft	23.50	22.56	21.62	20.68	19.74
CCSHR188A-10	RG188 Cable, SMA Male / 90° Male, 10.0 ft	26.00	24.96	23.92	22.88	21.84

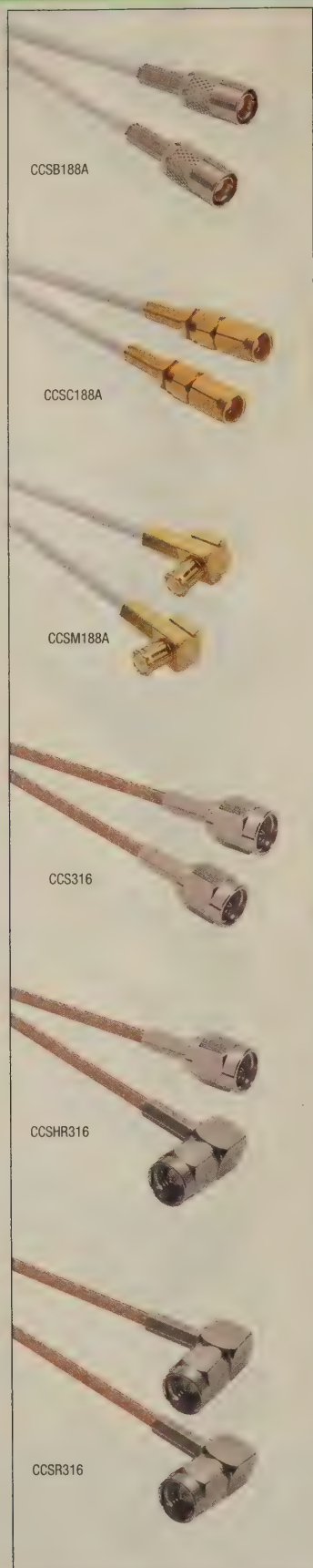
✓RoHS RG188A/U - 50 Ohm Hi-Temperature Coaxial Cables with Two Right Angle SMA Plugs

CCSR188A-1	RG188 Cable, SMA 90° Male / 90° Male, 1.0 ft	20.00	19.20	18.40	17.60	16.80
CCSR188A-1.5	RG188 Cable, SMA 90° Male / 90° Male, 1.5 ft	20.50	19.68	18.86	18.04	17.22
CCSR188A-2	RG188 Cable, SMA 90° Male / 90° Male, 2.0 ft	21.00	20.16	19.32	18.48	17.64
CCSR188A-2.5	RG188 Cable, SMA 90° Male / 90° Male, 2.5 ft	21.50	20.64	19.78	18.92	18.06
CCSR188A-3	RG188 Cable, SMA 90° Male / 90° Male, 3.0 ft	22.00	21.12	20.24	19.36	18.48
CCSR188A-4	RG188 Cable, SMA 90° Male / 90° Male, 4.0 ft	23.00	22.08	21.16	20.24	19.32
CCSR188A-5	RG188 Cable, SMA 90° Male / 90° Male, 5.0 ft	24.00	23.04	22.08	21.12	20.16
CCSR188A-7.5	RG188 Cable, SMA 90° Male / 90° Male, 7.5 ft	26.50	25.44	24.38	23.32	22.26
CCSR188A-10	RG188 Cable, SMA 90° Male / 90° Male, 10.0 ft	29.00	27.84	26.68	25.52	24.36



Same day shipping

Orders placed before 4:00 EST
ship the same day.



Item #	Description	1-9	10-24	25-99	100-249	250-499
RG188A/U	50 Ohm Impedance	NOMINAL ATTENUATION				
		MHz	db/100 ft	db/100m		
	- Center Conductor: 26 (7x34) AWG silver coated copper covered steel - Shielding: Silver coated copper braid (96% shield coverage) - Insulation: TFE Teflon - Jacket: White TFE taped - Operating Temperature: -70°C - +200°C VW-1 vertical flame test compliant	50	5.6	18.4		
		100	8.3	27.2		
		200	12.0	39.4		
		400	17.5	57.4		
		1000	29.0	95.1		

✓RoHS RG188A/U - 50 Ohm Hi-Temperature Coaxial Cables with Two Inline SMB Plugs

CCSB188A-1	RG188 Cable, SMB Male / Male, 1.0 ft	26.50	25.44	24.38	23.32	22.26
CCSB188A-1.5	RG188 Cable, SMB Male / Male, 1.5 ft	27.00	25.92	24.84	23.76	22.68
CCSB188A-2	RG188 Cable, SMB Male / Male, 2.0 ft	27.50	26.40	25.30	24.20	23.10
CCSB188A-2.5	RG188 Cable, SMB Male / Male, 2.5 ft	28.00	26.88	25.76	24.64	23.52
CCSB188A-3	RG188 Cable, SMB Male / Male, 3.0 ft	28.50	27.36	26.22	25.08	23.94
CCSB188A-4	RG188 Cable, SMB Male / Male, 4.0 ft	29.50	28.32	27.14	25.96	24.78
CCSB188A-5	RG188 Cable, SMB Male / Male, 5.0 ft	30.50	29.28	28.06	26.84	25.62
CCSB188A-7.5	RG188 Cable, SMB Male / Male, 7.5 ft	33.00	31.68	30.36	29.04	27.72
CCSB188A-10	RG188 Cable, SMB Male / Male, 10.0 ft	35.50	34.08	32.66	31.24	29.82

RG188A/U - 50 Ohm Hi-Temperature Coaxial Cables with Two Inline SMC Plugs

CCSC188A-1	RG188 Cable, SMC Male / Male, 1.0 ft	26.50	25.44	24.38	23.32	22.26
CCSC188A-1.5	RG188 Cable, SMC Male / Male, 1.5 ft	27.00	25.92	24.84	23.76	22.68
CCSC188A-2	RG188 Cable, SMC Male / Male, 2.0 ft	27.50	26.40	25.30	24.20	23.10
CCSC188A-2.5	RG188 Cable, SMC Male / Male, 2.5 ft	28.00	26.88	25.76	24.64	23.52
CCSC188A-3	RG188 Cable, SMC Male / Male, 3.0 ft	28.50	27.36	26.22	25.08	23.94
CCSC188A-4	RG188 Cable, SMC Male / Male, 4.0 ft	29.50	28.32	27.14	25.96	24.78
CCSC188A-5	RG188 Cable, SMC Male / Male, 5.0 ft	30.50	29.28	28.06	26.84	25.62
CCSC188A-7.5	RG188 Cable, SMC Male / Male, 7.5 ft	33.00	31.68	30.36	29.04	27.72
CCSC188A-10	RG188 Cable, SMC Male / Male, 10.0 ft	35.50	34.08	32.66	31.24	29.82

RG188A/U - 50 Ohm Hi-Temperature Coaxial Cables with Two Right Angle MCX Plugs

CCSM188A-1	RG188 Cable, MCX 90° Male / 90° Male, 1.0 ft	26.50	25.44	24.38	23.32	22.26
CCSM188A-1.5	RG188 Cable, MCX 90° Male / 90° Male, 1.5 ft	27.00	25.92	24.84	23.76	22.68
CCSM188A-2	RG188 Cable, MCX 90° Male / 90° Male, 2.0 ft	27.50	26.40	25.30	24.20	23.10
CCSM188A-2.5	RG188 Cable, MCX 90° Male / 90° Male, 2.5 ft	28.00	26.88	25.76	24.64	23.52
CCSM188A-3	RG188 Cable, MCX 90° Male / 90° Male, 3.0 ft	28.50	27.36	26.22	25.08	23.94
CCSM188A-4	RG188 Cable, MCX 90° Male / 90° Male, 4.0 ft	29.50	28.32	27.14	25.96	24.78
CCSM188A-5	RG188 Cable, MCX 90° Male / 90° Male, 5.0 ft	30.50	29.28	28.06	26.84	25.62
CCSM188A-7.5	RG188 Cable, MCX 90° Male / 90° Male, 7.5 ft	33.00	31.68	30.36	29.04	27.72
CCSM188A-10	RG188 Cable, MCX 90° Male / 90° Male, 10.0 ft	35.50	34.08	32.66	31.24	29.82

RG316/U - 50 Ohm Coaxial Cables Hi-Temperature (200°C) with SMA, SMB, SMC and MCX Plugs

L-com carries a full line of RG316/U cable assemblies with SMA, SMB, SMC and MCX connectors. RG316/U is similar in size to RG174/U but utilizes a TFE insulator and FEP outer jacket to achieve a high operating temperature. Right angle configurations are offered on the SMA and MCX connectors.

RG316/U	50 Ohm Impedance	NOMINAL ATTENUATION				
		MHz	db/100 ft	db/100m		
	- Center Conductor: 26 (7x34) AWG silver coated copper covered steel - Shielding: Silver coated copper braid (95% coverage) - Insulation: TFE Teflon - Jacket: Brown FEP - Operating Temperature: -70°C - +200°C VW-1 vertical flame test compliant	50	5.6	18.4		
		100	8.3	27.2		
		200	12.0	39.4		
		400	17.5	57.4		
		1000	29.0	95.1		

✓RoHS RG316/U - 50 Ohm Hi-Temperature Coaxial Cables with Two Inline SMA Plugs

CCS316-08	RG316 Cable, SMA Male / Male, 0.67 ft	14.65	14.06	13.48	12.89	12.31
CCS316-1	RG316 Cable, SMA Male / Male, 1.0 ft	15.00	14.40	13.80	13.20	12.60
CCS316-1.5	RG316 Cable, SMA Male / Male, 1.5 ft	15.50	14.88	14.26	13.64	13.02
CCS316-2	RG316 Cable, SMA Male / Male, 2.0 ft	16.00	15.36	14.72	14.08	13.44
CCS316-2.5	RG316 Cable, SMA Male / Male, 2.5 ft	16.50	15.84	15.18	14.52	13.86
CCS316-3	RG316 Cable, SMA Male / Male, 3.0 ft	17.00	16.32	15.64	14.96	14.28
CCS316-4	RG316 Cable, SMA Male / Male, 4.0 ft	18.00	17.28	16.56	15.84	15.12
CCS316-5	RG316 Cable, SMA Male / Male, 5.0 ft	19.00	18.24	17.48	16.72	15.96
CCS316-7.5	RG316 Cable, SMA Male / Male, 7.5 ft	21.50	20.64	19.78	18.92	18.06
CCS316-10	RG316 Cable, SMA Male / Male, 10.0 ft	24.00	23.04	22.08	21.12	20.16

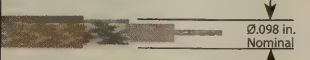
✓RoHS RG316/U - 50 Ohm Hi-Temperature Coaxial Cables with Inline SMA to Right Angle SMA Plug

CCSHR316-1	RG316 Cable, SMA Male / 90° Male, 1.0 ft	17.00	16.32	15.64	14.96	14.28
CCSHR316-1.5	RG316 Cable, SMA Male / 90° Male, 1.5 ft	17.50	16.80	16.10	15.40	14.70
CCSHR316-2	RG316 Cable, SMA Male / 90° Male, 2.0 ft	18.00	17.28	16.56	15.84	15.12
CCSHR316-2.5	RG316 Cable, SMA Male / 90° Male, 2.5 ft	18.50	17.76	17.02	16.28	15.54
CCSHR316-3	RG316 Cable, SMA Male / 90° Male, 3.0 ft	19.00	18.24	17.48	16.72	15.96
CCSHR316-4	RG316 Cable, SMA Male / 90° Male, 4.0 ft	20.00	19.20	18.40	17.60	16.80
CCSHR316-5	RG316 Cable, SMA Male / 90° Male, 5.0 ft	21.00	20.16	19.32	18.48	17.64
CCSHR316-7.5	RG316 Cable, SMA Male / 90° Male, 7.5 ft	23.50	22.56	21.62	20.68	19.74
CCSHR316-10	RG316 Cable, SMA Male / 90° Male, 10.0 ft	26.00	24.96	23.92	22.88	21.84

✓RoHS RG316/U - 50 Ohm Hi-Temperature Coaxial Cables with Two Right Angle SMA Plugs

CCSR316-1	RG316 Cable, SMA 90° Male / 90° Male, 1.0 ft	20.00	19.20	18.40	17.60	16.80
CCSR316-1.5	RG316 Cable, SMA 90° Male / 90° Male, 1.5 ft	20.50	19.68	18.86	18.04	17.22
CCSR316-2	RG316 Cable, SMA 90° Male / 90° Male, 2.0 ft	21.00	20.16	19.32	18.48	17.64
CCSR316-2.5	RG316 Cable, SMA 90° Male / 90° Male, 2.5 ft	21.50	20.64	19.78	18.92	18.06
CCSR316-3	RG316 Cable, SMA 90° Male / 90° Male, 3.0 ft	22.00	21.12	20.24	19.36	18.48
CCSR316-4	RG316 Cable, SMA 90° Male / 90° Male, 4.0 ft	23.00	22.08	21.16	20.24	19.32
CCSR316-5	RG316 Cable, SMA 90° Male / 90° Male, 5.0 ft	24.00	23.04	22.08	21.12	20.16
CCSR316-7.5	RG316 Cable, SMA 90° Male / 90° Male, 7.5 ft	26.50	25.44	24.38	23.32	22.26
CCSR316-10	RG316 Cable, SMA 90° Male / 90° Male, 10.0 ft	29.00	27.84	26.68	25.52	24.36



Item #	Description	1-9	10-24	25-99	100-249	250-499				
RG316/U		- Center Conductor: 26 (7x34) AWG silver coated copper covered steel - Shielding: Silver coated copper braid (95% coverage) - Insulation: TFE Teflon - Jacket: Brown FEP - Operating Temperature: -70°C - +200°C VW-1 vertical flame test compliant	NOMINAL ATTENUATION							
			MHz	db/100 ft	db/100m					
			50 Ohm Impedance					50	5.6	18.4
								100	8.3	27.2
								200	12.0	39.4
								400	17.5	57.4
								1000	29.0	95.1

RoHS RG316/U - 50 Ohm Hi-Temperature Coaxial Cables with Two Inline SMB Plugs

CCSB316-1	RG316 Cable, SMB Male / Male, 1.0 ft	26.50	25.44	24.38	23.32	22.26
CCSB316-1.5	RG316 Cable, SMB Male / Male, 1.5 ft	27.00	25.92	24.84	23.76	22.68
CCSB316-2	RG316 Cable, SMB Male / Male, 2.0 ft	27.50	26.40	25.30	24.20	23.10
CCSB316-2.5	RG316 Cable, SMB Male / Male, 2.5 ft	28.00	26.88	25.76	24.64	23.52
CCSB316-3	RG316 Cable, SMB Male / Male, 3.0 ft	28.50	27.36	26.22	25.08	23.94
CCSB316-4	RG316 Cable, SMB Male / Male, 4.0 ft	29.50	28.32	27.14	25.96	24.78
CCSB316-5	RG316 Cable, SMB Male / Male, 5.0 ft	30.50	29.28	28.06	26.84	25.62
CCSB316-7.5	RG316 Cable, SMB Male / Male, 7.5 ft	33.00	31.68	30.36	29.04	27.72
CCSB316-10	RG316 Cable, SMB Male / Male, 10.0 ft	35.50	34.08	32.66	31.24	29.82

RG316/U - 50 Ohm Hi-Temperature Coaxial Cables with Two Inline SMC Plugs

CCSC316-1	RG316 Cable, SMC Male / Male, 1.0 ft	26.50	25.44	24.38	23.32	22.26
CCSC316-1.5	RG316 Cable, SMC Male / Male, 1.5 ft	27.00	25.92	24.84	23.76	22.68
CCSC316-2	RG316 Cable, SMC Male / Male, 2.0 ft	27.50	26.40	25.30	24.20	23.10
CCSC316-2.5	RG316 Cable, SMC Male / Male, 2.5 ft	28.00	26.88	25.76	24.64	23.52
CCSC316-3	RG316 Cable, SMC Male / Male, 3.0 ft	28.50	27.36	26.22	25.08	23.94
CCSC316-4	RG316 Cable, SMC Male / Male, 4.0 ft	29.50	28.32	27.14	25.96	24.78
CCSC316-5	RG316 Cable, SMC Male / Male, 5.0 ft	30.50	29.28	28.06	26.84	25.62
CCSC316-7.5	RG316 Cable, SMC Male / Male, 7.5 ft	33.00	31.68	30.36	29.04	27.72
CCSC316-10	RG316 Cable, SMC Male / Male, 10.0 ft	35.50	34.08	32.66	31.24	29.82

RG316/U - 50 Ohm Hi-Temperature Coaxial Cables with Two Right Angle MCX Plugs

CCSM316-1	RG316 Cable, MCX 90° Male / 90° Male, 1.0 ft	26.50	25.44	24.38	23.32	22.26
CCSM316-1.5	RG316 Cable, MCX 90° Male / 90° Male, 1.5 ft	27.00	25.92	24.84	23.76	22.68
CCSM316-2	RG316 Cable, MCX 90° Male / 90° Male, 2.0 ft	27.50	26.40	25.30	24.20	23.10
CCSM316-2.5	RG316 Cable, MCX 90° Male / 90° Male, 2.5 ft	28.00	26.88	25.76	24.64	23.52
CCSM316-3	RG316 Cable, MCX 90° Male / 90° Male, 3.0 ft	28.50	27.36	26.22	25.08	23.94
CCSM316-4	RG316 Cable, MCX 90° Male / 90° Male, 4.0 ft	29.50	28.32	27.14	25.96	24.78
CCSM316-5	RG316 Cable, MCX 90° Male / 90° Male, 5.0 ft	30.50	29.28	28.06	26.84	25.62
CCSM316-7.5	RG316 Cable, MCX 90° Male / 90° Male, 7.5 ft	33.00	31.68	30.36	29.04	27.72
CCSM316-10	RG316 Cable, MCX 90° Male / 90° Male, 10.0 ft	35.50	34.08	32.66	31.24	29.82

RG58C/U - 50 Ohm Coaxial Cables with BNC, SMA and TNC Connectors

L-com offers a wide variety of RG58C/U cable assemblies utilizing BNC, SMA and TNC connectors as shown here and on the [next page](#). RG58C/U cable is one of the most commonly used 50 Ohm cables. In addition to inline configurations L-com offers right angle and female bulkheads. All BNC connectors feature a molded strain relief while the SMA connectors utilize shrink tubing for strain relief.

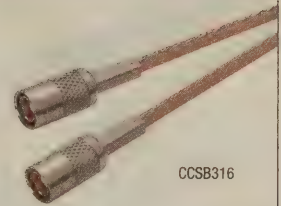
RG58C/U  50 Ohm Impedance	• Center Conductor: 20 (19x33) AWG tinned copper • Shielding: Tinned copper braid (95% coverage) • Insulation: Polyethylene • Jacket: Black PVC • Operating Temperature: -40°C - +85°C	NOMINAL ATTENUATION		
		MHz	db/100 ft	db/100m
		50	3.3	10.8
		100	4.9	16.1
		200	7.3	23.9
		400	11.0	36.1
		1000	20.0	65.6

RoHS RG58C/U - 50 Ohm Coaxial Cables with Two Inline BNC Plugs

CC58C-05	RG58C Cable, BNC Male / Male, 0.5 ft	7.15	6.72	6.29	5.86	5.43
CC58C-1	RG58C Cable, BNC Male / Male, 1.0 ft	7.30	6.86	6.42	5.99	5.55
CC58C-1.5	RG58C Cable, BNC Male / Male, 1.5 ft	7.45	7.00	6.56	6.11	5.66
CC58C-2	RG58C Cable, BNC Male / Male, 2.0 ft	7.60	7.14	6.69	6.23	5.78
CC58C-2.5	RG58C Cable, BNC Male / Male, 2.5 ft	7.75	7.28	6.82	6.36	5.89
CC58C-3	RG58C Cable, BNC Male / Male, 3.0 ft	7.90	7.43	6.95	6.48	6.00
CC58C-4	RG58C Cable, BNC Male / Male, 4.0 ft	8.20	7.71	7.22	6.72	6.23
CC58C-5	RG58C Cable, BNC Male / Male, 5.0 ft	8.50	7.99	7.48	6.97	6.46
CC58C-6	RG58C Cable, BNC Male / Male, 6.0 ft	8.80	8.27	7.74	7.22	6.69
CC58C-7.5	RG58C Cable, BNC Male / Male, 7.5 ft	9.25	8.70	8.14	7.59	7.03
CC58C-10	RG58C Cable, BNC Male / Male, 10.0 ft	10.00	9.40	8.80	8.20	7.60
CC58C-12	RG58C Cable, BNC Male / Male, 12.0 ft	10.60	9.96	9.33	8.69	8.06
CC58C-15	RG58C Cable, BNC Male / Male, 15.0 ft	11.50	10.81	10.12	9.43	8.74
CC58C-25	RG58C Cable, BNC Male / Male, 25.0 ft	14.50	13.63	12.76	11.89	11.02
CC58C-50	RG58C Cable, BNC Male / Male, 50.0 ft	22.00	20.68	19.36	18.04	16.72
CC58C-75	RG58C Cable, BNC Male / Male, 75.0 ft	29.50	27.73	25.96	24.19	22.42
CC58C-100	RG58C Cable, BNC Male / Male, 100.0 ft	37.00	34.78	32.56	30.34	28.12
CC58C-150	RG58C Cable, BNC Male / Male, 150.0 ft	52.00	48.88	45.76	42.64	39.52
CC58C-200	RG58C Cable, BNC Male / Male, 200.0 ft	67.00	62.98	58.96	54.94	50.92

RoHS RG58C/U - 50 Ohm Coaxial Cables with Inline BNC Plug to BNC Jack

CC58C-MF-1	RG58C Cable, BNC Male / Female Bulkhead, 1.0 ft	14.50	13.63	12.76	11.89	11.02
CC58C-MF-3	RG58C Cable, BNC Male / Female Bulkhead, 3.0 ft	15.10	14.19	13.29	12.38	11.48
CC58C-MF-6	RG58C Cable, BNC Male / Female Bulkhead, 6.0 ft	16.00	15.04	14.08	13.12	12.16
CC58C-MF-10	RG58C Cable, BNC Male / Female Bulkhead, 10.0 ft	17.20	16.17	15.14	14.10	13.07
CC58C-MF-15	RG58C Cable, BNC Male / Female Bulkhead, 15.0 ft	18.70	17.58	16.46	15.33	14.21
CC58C-MF-25	RG58C Cable, BNC Male / Female Bulkhead, 25.0 ft	21.70	20.40	19.10	17.79	16.49
CC58C-MF-50	RG58C Cable, BNC Male / Female Bulkhead, 50.0 ft	29.20	27.45	25.70	23.94	22.19



CCSB316



CCSC316



CCSM316

Did you know...

The difference between 50 and 75 Ohm BNC connectors is the absence of dielectric material at the interface of the 75 Ohm version?



CC58C

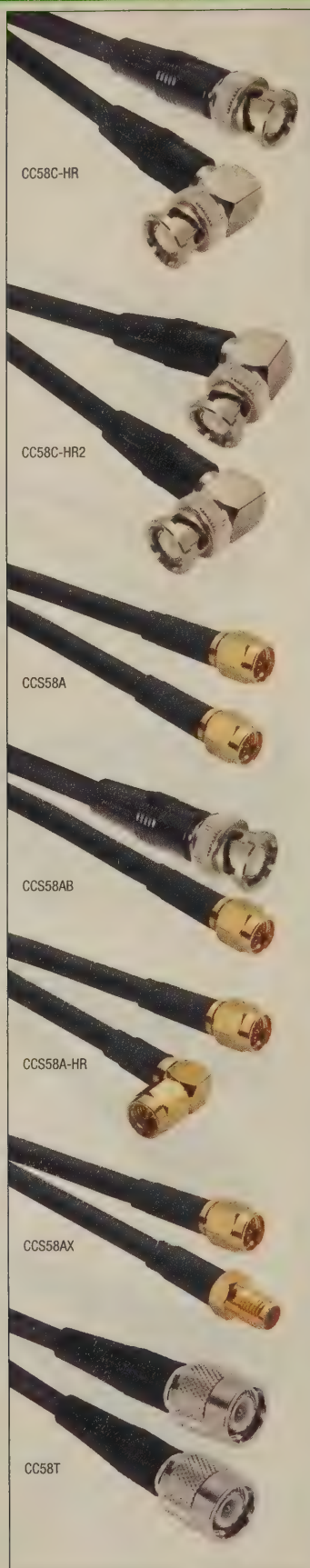


CC58C-MF



Informative e-mail newsletters

Our newsletters are packed with tips, tutorials, product info and downloads! L-com.com/NewsletterSignUp



Item #	Description	1-9	10-24	25-99	100-249	250-499
RG58C/U 50 Ohm Impedance	• Center Conductor: 20 (19x33) AWG tinned copper	NOMINAL ATTENUATION				
	• Shielding: Tinned copper braid (95% coverage)	MHz	db/100 ft	db/100m		
	• Insulation: Polyethylene	50	3.3	10.8		
	• Jacket: Black PVC	100	4.9	16.1		
	• Operating Temperature: -40°C - +85°C	200	7.3	23.9		
		400	11.0	36.1		
		1000	20.0	65.6		

✓RoHS RG58C/U - 50 Ohm Coaxial Cables with Inline BNC to Right Angle BNC Plugs

CC58C-1HR	RG58C Cable, BNC Male / 90° Male, 1.0 ft	10.45	9.82	9.20	8.57	7.94
CC58C-1.5HR	RG58C Cable, BNC Male / 90° Male, 1.5 ft	10.60	9.96	9.33	8.69	8.06
CC58C-2HR	RG58C Cable, BNC Male / 90° Male, 2.0 ft	10.75	10.10	9.46	8.82	8.17
CC58C-2.5HR	RG58C Cable, BNC Male / 90° Male, 2.5 ft	10.90	10.25	9.59	8.94	8.28
CC58C-3HR	RG58C Cable, BNC Male / 90° Male, 3.0 ft	11.05	10.39	9.72	9.06	8.40
CC58C-4HR	RG58C Cable, BNC Male / 90° Male, 4.0 ft	11.35	10.67	9.99	9.31	8.63
CC58C-5HR	RG58C Cable, BNC Male / 90° Male, 5.0 ft	11.65	10.95	10.25	9.55	8.85
CC58C-7.5HR	RG58C Cable, BNC Male / 90° Male, 7.5 ft	12.40	11.66	10.91	10.17	9.42
CC58C-10HR	RG58C Cable, BNC Male / 90° Male, 10.0 ft	13.15	12.36	11.57	10.78	9.99

✓RoHS RG58C/U - 50 Ohm Coaxial Cables with Two Right Angle BNC Plugs

CC58C-1HR2	RG58C Cable, BNC 90° Male / 90° Male, 1.0 ft	12.50	11.75	11.00	10.25	9.50
CC58C-1.5HR2	RG58C Cable, BNC 90° Male / 90° Male, 1.5 ft	12.65	11.89	11.13	10.37	9.61
CC58C-2HR2	RG58C Cable, BNC 90° Male / 90° Male, 2.0 ft	12.80	12.03	11.26	10.50	9.73
CC58C-2.5HR2	RG58C Cable, BNC 90° Male / 90° Male, 2.5 ft	12.95	12.17	11.40	10.62	9.84
CC58C-3HR2	RG58C Cable, BNC 90° Male / 90° Male, 3.0 ft	13.10	12.31	11.53	10.74	9.96
CC58C-4HR2	RG58C Cable, BNC 90° Male / 90° Male, 4.0 ft	13.40	12.60	11.79	10.99	10.18
CC58C-5HR2	RG58C Cable, BNC 90° Male / 90° Male, 5.0 ft	13.70	12.88	12.06	11.23	10.41
CC58C-7.5HR2	RG58C Cable, BNC 90° Male / 90° Male, 7.5 ft	14.45	13.58	12.72	11.85	10.98
CC58C-10HR2	RG58C Cable, BNC 90° Male / 90° Male, 10.0 ft	15.20	14.29	13.38	12.46	11.55
CC58C-15HR2	RG58C Cable, BNC 90° Male / 90° Male, 15.0 ft	16.70	15.70	14.70	13.69	12.69
CC58C-20HR2	RG58C Cable, BNC 90° Male / 90° Male, 20.0 ft	18.20	17.11	16.02	14.92	13.83

✓RoHS RG58C/U - 50 Ohm Coaxial Cables with Two Inline SMA Plugs

CC58A-05	RG58C Cable, SMA Male / Male, 0.5 ft	14.15	13.30	12.45	11.60	10.75
CC58A-1	RG58C Cable, SMA Male / Male, 1.0 ft	14.30	13.44	12.58	11.73	10.87
CC58A-1.5	RG58C Cable, SMA Male / Male, 1.5 ft	14.45	13.58	12.72	11.85	10.98
CC58A-2	RG58C Cable, SMA Male / Male, 2.0 ft	14.60	13.72	12.85	11.97	11.10
CC58A-2.5	RG58C Cable, SMA Male / Male, 2.5 ft	14.75	13.86	12.98	12.10	11.21
CC58A-3	RG58C Cable, SMA Male / Male, 3.0 ft	14.90	14.01	13.11	12.22	11.32
CC58A-4	RG58C Cable, SMA Male / Male, 4.0 ft	15.20	14.29	13.38	12.46	11.55
CC58A-5	RG58C Cable, SMA Male / Male, 5.0 ft	15.50	14.57	13.64	12.71	11.78
CC58A-7.5	RG58C Cable, SMA Male / Male, 7.5 ft	16.25	15.27	14.30	13.33	12.35
CC58A-10	RG58C Cable, SMA Male / Male, 10.0 ft	17.00	15.98	14.96	13.94	12.92

✓RoHS RG58C/U - 50 Ohm Coaxial Cables with Inline SMA to Inline BNC Plugs

CC58AB-05	RG58C Cable, SMA Male / BNC Male, 0.5 ft	11.40	10.72	10.03	9.35	8.66
CC58AB-1	RG58C Cable, SMA Male / BNC Male, 1.0 ft	11.55	10.86	10.16	9.47	8.78
CC58AB-1.5	RG58C Cable, SMA Male / BNC Male, 1.5 ft	11.70	11.00	10.30	9.59	8.89
CC58AB-2.5	RG58C Cable, SMA Male / BNC Male, 2.5 ft	12.00	11.28	10.56	9.84	9.12
CC58AB-5	RG58C Cable, SMA Male / BNC Male, 5.0 ft	12.75	11.99	11.22	10.46	9.69
CC58AB-7.5	RG58C Cable, SMA Male / BNC Male, 7.5 ft	13.50	12.69	11.88	11.07	10.26
CC58AB-10	RG58C Cable, SMA Male / BNC Male, 10.0 ft	14.25	13.40	12.54	11.68	10.83

✓RoHS RG58C/U - 50 Ohm Coaxial Cables with Inline SMA to Right Angle SMA Plugs

CC58A-05HR	RG58C Cable, SMA Male / 90° Male, 0.5 ft	13.30	12.50	11.70	10.91	10.11
CC58A-1HR	RG58C Cable, SMA Male / 90° Male, 1.0 ft	13.45	12.64	11.84	11.03	10.22
CC58A-1.5HR	RG58C Cable, SMA Male / 90° Male, 1.5 ft	13.60	12.78	11.97	11.15	10.34
CC58A-2HR	RG58C Cable, SMA Male / 90° Male, 2.0 ft	13.75	12.93	12.10	11.27	10.45
CC58A-2.5HR	RG58C Cable, SMA Male / 90° Male, 2.5 ft	13.90	13.07	12.23	11.40	10.56
CC58A-3HR	RG58C Cable, SMA Male / 90° Male, 3.0 ft	14.05	13.21	12.36	11.52	10.68
CC58A-4HR	RG58C Cable, SMA Male / 90° Male, 4.0 ft	14.35	13.49	12.63	11.77	10.91
CC58A-5HR	RG58C Cable, SMA Male / 90° Male, 5.0 ft	14.65	13.77	12.89	12.01	11.13
CC58A-7.5HR	RG58C Cable, SMA Male / 90° Male, 7.5 ft	15.40	14.48	13.55	12.63	11.70
CC58A-10HR	RG58C Cable, SMA Male / 90° Male, 10.0 ft	16.15	15.18	14.21	13.24	12.27

✓RoHS RG58C/U - 50 Ohm Coaxial Cables with Two Right Angle SMA Plugs

CC58A-05HR2	RG58C Cable, SMA 90° Male / 90° Male, 0.5 ft	16.30	15.32	14.34	13.37	12.39
CC58A-1HR2	RG58C Cable, SMA 90° Male / 90° Male, 1.0 ft	16.45	15.46	14.48	13.49	12.50
CC58A-1.5HR2	RG58C Cable, SMA 90° Male / 90° Male, 1.5 ft	16.60	15.60	14.61	13.61	12.62
CC58A-2.5HR2	RG58C Cable, SMA 90° Male / 90° Male, 2.5 ft	16.90	15.89	14.87	13.86	12.84
CC58A-5HR2	RG58C Cable, SMA 90° Male / 90° Male, 5.0 ft	17.65	16.59	15.53	14.47	13.41
CC58A-10HR2	RG58C Cable, SMA 90° Male / 90° Male, 10.0 ft	19.15	18.00	16.85	15.70	14.55

✓RoHS RG58C/U - 50 Ohm Extension Cables with Inline SMA Plug to SMA Jack

CC58AX-1	RG58C Cable, SMA Male / Female, 1.0 ft	15.65	14.71	13.77	12.83	11.89
CC58AX-2.5	RG58C Cable, SMA Male / Female, 2.5 ft	16.10	15.13	14.17	13.20	12.24
CC58AX-5	RG58C Cable, SMA Male / Female, 5.0 ft	16.85	15.84	14.83	13.82	12.81

✓RoHS RG58C/U - 50 Ohm Coaxial Cables with Two Inline TNC Plugs

CC58T-1	RG58C Cable, TNC Male / Male, 1.0 ft	10.75	10.10	9.46	8.82	8.17
CC58T-3	RG58C Cable, TNC Male / Male, 3.0 ft	11.35	10.67	9.99	9.31	8.63
CC58T-6	RG58C Cable, TNC Male / Male, 6.0 ft	12.25	11.51	10.78	10.05	9.31
CC58T-10	RG58C Cable, TNC Male / Male, 10.0 ft	13.45	12.64	11.84	11.03	10.22
CC58T-15	RG58C Cable, TNC Male / Male, 15.0 ft	14.95	14.05	13.16	12.26	11.36
CC58T-25	RG58C Cable, TNC Male / Male, 25.0 ft	17.95	16.87	15.80	14.72	13.64
CC58T-50	RG58C Cable, TNC Male / Male, 50.0 ft	25.45	23.92	22.40	20.87	19.34

Item #	Description	1-9	10-24	25-99	100-249	250-499
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RG58/U ThinNet Coaxial Cables - Fully Insulated BNC Plugs

ThinNet Coaxial, Thin Wire Ethernet, 10BASE-2 or CheaperNet are all names for the RG58 type of coaxial transmission media. The difference in performance between thick and thin Ethernet relate only to distance. So if you have 30 or fewer users on your segment and your length requirement does not exceed 185m (607 ft) make ThinNet the cable of your choice. Offered with fully insulated inline and 90° BNC connectors.

RG58/U (R9907) Thin Ethernet Type		Ø.185 in. Nominal	• Center Conductor: 20 (19x32) AWG tinned copper • Shielding: Tinned copper braid + foil (100% coverage) • Insulation: Foam polyethylene • Jacket: Beige PVC • Operating Temperature: -40°C - +75°C	NOMINAL ATTENUATION		
50 Ohm Impedance				MHz	db/100 ft	db/100m
	50	2.9	9.5			
	100	4.2	13.8			
	200	6.1	20.0			
	400	8.9	29.2			
	1000	14.8	48.5			

RoHS RG58/U Thin Ethernet Coaxial Cables - Two Inline Fully Insulated BNC Plugs

CCTN58-1B	RG58 ThinNet Cable, BNC Male / Male, 1.0 ft	8.50	7.82	7.14	6.46	5.78
CCTN58-2B	RG58 ThinNet Cable, BNC Male / Male, 2.0 ft	9.00	8.28	7.56	6.84	6.12
CCTN58-2.5B	RG58 ThinNet Cable, BNC Male / Male, 2.5 ft	9.25	8.51	7.77	7.03	6.29
CCTN58-3B	RG58 ThinNet Cable, BNC Male / Male, 3.0 ft	9.50	8.74	7.98	7.22	6.46
CCTN58-5B	RG58 ThinNet Cable, BNC Male / Male, 5.0 ft	10.50	9.66	8.82	7.98	7.14
CCTN58-6B	RG58 ThinNet Cable, BNC Male / Male, 6.0 ft	11.00	10.12	9.24	8.36	7.48
CCTN58-7.5B	RG58 ThinNet Cable, BNC Male / Male, 7.5 ft	11.75	10.81	9.87	8.93	7.99
CCTN58-10B	RG58 ThinNet Cable, BNC Male / Male, 10.0 ft	13.00	11.96	10.92	9.88	8.84
CCTN58-15B	RG58 ThinNet Cable, BNC Male / Male, 15.0 ft	15.50	14.26	13.02	11.78	10.54
CCTN58-25B	RG58 ThinNet Cable, BNC Male / Male, 25.0 ft	18.85	17.34	15.83	14.33	12.82
CCTN58-50B	RG58 ThinNet Cable, BNC Male / Male, 50.0 ft	30.35	27.92	25.49	23.07	20.64
CCTN58-100B	RG58 ThinNet Cable, BNC Male / Male, 100.0 ft	53.35	49.08	44.81	40.55	36.28

RoHS RG58/U Thin Ethernet Coaxial Cables - One or Two Right Angle Fully Insulated BNC Plugs

CCTN58-5HRB	RG58 ThinNet Cable, BNC Male / 90° Male, 5.0 ft	14.85	13.66	12.47	11.29	10.10
CCTN58-10HRB	RG58 ThinNet Cable, BNC Male / 90° Male, 10.0 ft	17.40	16.01	14.62	13.22	11.83
CCTN58-15HRB	RG58 ThinNet Cable, BNC Male / 90° Male, 15.0 ft	19.90	18.31	16.72	15.12	13.53
CCTN58-25HRB	RG58 ThinNet Cable, BNC Male / 90° Male, 25.0 ft	22.90	21.07	19.24	17.40	15.57
CCTN58-5HR2B	RG58 ThinNet Cable, BNC 90° Male / 90° Male, 5.0 ft	19.90	18.31	16.72	15.12	13.53
CCTN58-10HR2B	RG58 ThinNet Cable, BNC 90° Male / 90° Male, 10.0 ft	22.40	20.61	18.82	17.02	15.23
CCTN58-15HR2B	RG58 ThinNet Cable, BNC 90° Male / 90° Male, 15.0 ft	24.90	22.91	20.92	18.92	16.93
CCTN58-25HR2B	RG58 ThinNet Cable, BNC 90° Male / 90° Male, 25.0 ft	27.50	25.30	23.10	20.90	18.70

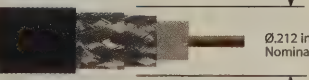
RoHS RG58/U 50 Ohm Thin Ethernet Plenum - With Two Inline BNC Plugs

Plenum grade RG58/U is available for high temperature and other environments where PVC is not acceptable. Assemblies have FEP Teflon dielectric and flame retardant jacket. The center conductor is a 20 AWG solid conductor giving these assemblies limited flexibility. All cables terminated with Teflon grade BNC connectors.

CCTN58P-1B	RG58 ThinNet Plenum Cable, BNC Male / Male, 1.0 ft	16.00	15.36	14.72	14.08	13.44
CCTN58P-2B	RG58 ThinNet Plenum Cable, BNC Male / Male, 2.0 ft	17.00	16.32	15.64	14.96	14.28
CCTN58P-2.5B	RG58 ThinNet Plenum Cable, BNC Male / Male, 2.5 ft	18.00	17.28	16.56	15.84	15.12
CCTN58P-3B	RG58 ThinNet Plenum Cable, BNC Male / Male, 3.0 ft	19.00	18.24	17.48	16.72	15.96
CCTN58P-5B	RG58 ThinNet Plenum Cable, BNC Male / Male, 5.0 ft	23.00	22.08	21.16	20.24	19.32
CCTN58P-6B	RG58 ThinNet Plenum Cable, BNC Male / Male, 6.0 ft	24.00	23.04	22.08	21.12	20.16
CCTN58P-7.5B	RG58 ThinNet Plenum Cable, BNC Male / Male, 7.5 ft	27.00	25.92	24.84	23.76	22.68
CCTN58P-10B	RG58 ThinNet Plenum Cable, BNC Male / Male, 10.0 ft	31.00	29.76	28.52	27.28	26.04
CCTN58P-15B	RG58 ThinNet Plenum Cable, BNC Male / Male, 15.0 ft	36.00	34.56	33.12	31.68	30.24
CCTN58P-25B	RG58 ThinNet Plenum Cable, BNC Male / Male, 25.0 ft	46.00	44.16	42.32	40.48	38.64
CCTN58P-50B	RG58 ThinNet Plenum Cable, BNC Male / Male, 50.0 ft	87.00	83.52	80.04	76.56	73.08
CCTN58P-100B	RG58 ThinNet Plenum Cable, BNC Male / Male, 100.0 ft	156.00	149.76	143.52	137.28	131.04

RG223/U - 50 Ohm Coaxial Cable, Double Shielded with Solid Conductor and PVC Jacket

This series features popular double shielded RG223/U cable with the commonly used BNC, TNC and Type N (pg. 132) connector interfaces. All connectors utilize shrink tubing for strain relief. Offered in 8 standard lengths, custom lengths and connector combinations also available with modest minimums.

RG223/U		• Center Conductor: 19 AWG solid silver coated copper	NOMINAL ATTENUATION		
			MHz	db/100 ft	db/100m
50 Ohm Impedance		• Shielding: (2) Silver coated copper braid (95% coverage)	50	2.8	9.2
		• Insulation: Polyethylene	100	4.1	13.5
		• Jacket: Black PVC	200	6.0	23.9
		• Operating Temperature: -40°C - +60°C	400	8.8	28.9
			1000	14.5	47.6

RoHS RG223/U - 50 Ohm Coaxial Cable with Two Inline BNC Plugs

CC223B-1	RG223 Cable, BNC Male / Male, 1.0 ft	19.50	18.72	17.94	17.16	16.38
CC223B-1.5	RG223 Cable, BNC Male / Male, 1.5 ft	20.25	19.44	18.63	17.82	17.01
CC223B-2	RG223 Cable, BNC Male / Male, 2.0 ft	21.00	20.16	19.32	18.48	17.64
CC223B-2.5	RG223 Cable, BNC Male / Male, 2.5 ft	21.75	20.88	20.01	19.14	18.27
CC223B-5	RG223 Cable, BNC Male / Male, 5.0 ft	25.50	24.48	23.46	22.44	21.42
CC223B-7.5	RG223 Cable, BNC Male / Male, 7.5 ft	29.25	28.08	26.91	25.74	24.57
CC223B-10	RG223 Cable, BNC Male / Male, 10.0 ft	33.00	31.68	30.36	29.04	27.72
CC223B-15	RG223 Cable, BNC Male / Male, 15.0 ft	40.50	38.88	37.26	35.64	34.02

RoHS RG223/U - 50 Ohm Coaxial Cable with Two Inline TNC Plugs

CC223T-1	RG223 Cable, TNC Male / Male, 1.0 ft	19.50	18.72	17.94	17.16	16.38
CC223T-1.5	RG223 Cable, TNC Male / Male, 1.5 ft	20.25	19.44	18.63	17.82	17.01
CC223T-2	RG223 Cable, TNC Male / Male, 2.0 ft	21.00	20.16	19.32	18.48	17.64
CC223T-2.5	RG223 Cable, TNC Male / Male, 2.5 ft	21.75	20.88	20.01	19.14	18.27
CC223T-5	RG223 Cable, TNC Male / Male, 5.0 ft	25.50	24.48	23.46	22.44	21.42
CC223T-7.5	RG223 Cable, TNC Male / Male, 7.5 ft	29.25	28.08	26.91	25.74	24.57
CC223T-10	RG223 Cable, TNC Male / Male, 10.0 ft	33.00	31.68	30.36	29.04	27.72
CC223T-15	RG223 Cable, TNC Male / Male, 15.0 ft	40.50	38.88	37.26	35.64	34.02

50 Ohm ETHERNET

- Double Shielded
- Fully Insulated BNC (minimize ground loops)
- Best Length Variety
- Premium Grade or Networks



CCTN58-B

Right Angle

CCTN58-HR2B

Plenum Grade

- Thin Ethernet
- Double Shielded
- 50 Ohm Impedance
- FEP Teflon Insulation
- BNC Connectors



CCTN58P-B



CC223B

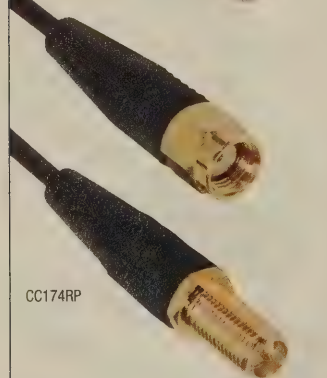


CC223T



For more useful information go to....
www.L-com.com/Resources

L-com Global Connectivity



Item #	Description	1-9	10-24	25-99	100-249	250-499
RG223/U		NOMINAL ATTENUATION				
	• Center Conductor: 19 AWG solid silver coated copper	MHz	db/100 ft	db/100m		
	• Shielding: (2) Silver coated copper braid (95% coverage)	50	2.8	9.2		
	• Insulation: Polyethylene	100	4.1	13.5		
	• Jacket: Black PVC	200	6.0	23.9		
	• Operating Temperature: -40°C - +60°C	400	8.8	28.9		
		1000	14.5	47.6		

RoHS RG223/U - 50 Ohm Coaxial Cable with Two Inline Type N Plugs

CC223N-1	RG223 Cable, Type N Male / Male, 1.0 ft	30.00	28.80	27.60	26.40	25.20
CC223N-1.5	RG223 Cable, Type N Male / Male, 1.5 ft	30.75	29.52	28.29	27.06	25.83
CC223N-2	RG223 Cable, Type N Male / Male, 2.0 ft	31.50	30.24	28.98	27.72	26.46
CC223N-2.5	RG223 Cable, Type N Male / Male, 2.5 ft	32.25	30.96	29.67	28.38	27.09
CC223N-5	RG223 Cable, Type N Male / Male, 5.0 ft	36.00	34.56	33.12	31.68	30.24
CC223N-7.5	RG223 Cable, Type N Male / Male, 7.5 ft	39.75	38.16	36.57	34.98	33.39
CC223N-10	RG223 Cable, Type N Male / Male, 10.0 ft	43.50	41.76	40.02	38.28	36.54
CC223N-15	RG223 Cable, Type N Male / Male, 15.0 ft	51.00	48.96	46.92	44.88	42.84

Wireless Antenna Extension Cables - Reverse Polarized TNC and SMA Connectors

Handy cable assemblies with reverse polarized TNC and SMA male to female configurations allowing quick and easy extension of most wireless antennas to location best suited for optimal performance. Simply remove the antenna from the base unit and relocate using these extension cables to link the antenna to the base unit.

RG58C/U		NOMINAL ATTENUATION		
	• Center Conductor: 20 (19x33) AWG tinned copper	MHz	db/100 ft	db/100m
	• Shielding: Tinned copper braid (95% coverage)	50	3.3	10.8
	• Insulation: Polyethylene	100	4.9	16.1
	• Jacket: Black PVC	200	7.3	23.9
	• Operating Temperature: -40°C - +85°C	400	11.0	36.1
		1000	20.0	65.6

RoHS Reverse Polarized TNC on RG58C/U - Wireless Antenna Extension Cables

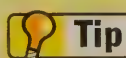
CC58RP-5	RG58C Cable, Reverse Polarized TNC Male / Female, 5.0 ft	22.00	21.12	20.24	19.36	18.48
CC58RP-10	RG58C Cable, Reverse Polarized TNC Male / Female, 10.0 ft	24.50	23.52	22.54	21.56	20.58
CC58RP-15	RG58C Cable, Reverse Polarized TNC Male / Female, 15.0 ft	27.00	25.92	24.84	23.76	22.68
CC58RP-20	RG58C Cable, Reverse Polarized TNC Male / Female, 20.0 ft	29.50	28.32	27.14	25.96	24.78
CC58RP-25	RG58C Cable, Reverse Polarized TNC Male / Female, 25.0 ft	32.00	30.72	29.44	28.16	26.88

RG174/U		NOMINAL ATTENUATION		
	• Center Conductor: 26 (7x34) AWG bare copper covered steel	MHz	db/100 ft	db/100m
	• Shielding: Tinned copper braid (90% coverage)	50	5.8	19.0
	• Insulation: Polyethylene	100	8.4	27.6
	• Jacket: Black PVC	200	12.5	41.0
	• Operating Temperature: -40°C - +75°C	400	19.0	62.3
		1000	34.0	111.5

RoHS Reverse Polarized SMA on RG174 - Wireless Antenna Extension Cables

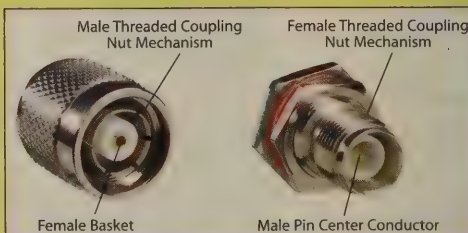
CC174RP-5	RG174 Cable, Reverse Polarized SMA Male / Female, 5.0 ft	19.75	18.96	18.17	17.38	16.59
CC174RP-10	RG174 Cable, Reverse Polarized SMA Male / Female, 10.0 ft	21.00	20.16	19.32	18.48	17.64
CC174RP-15	RG174 Cable, Reverse Polarized SMA Male / Female, 15.0 ft	22.25	21.36	20.47	19.58	18.69
CC174RP-20	RG174 Cable, Reverse Polarized SMA Male / Female, 20.0 ft	23.50	22.56	21.62	20.68	19.74
CC174RP-25	RG174 Cable, Reverse Polarized SMA Male / Female, 25.0 ft	24.75	23.76	22.77	21.78	20.79

Item #	Description	Cable	Attachment	1-9	10-24	25-99	100-249	250-499
RoHS Reverse Polarized Coaxial Connectors								
These connectors are designed for attachment to RG174/188/316 or RG58 cables and are ideal for applications where building your own cable assembly is the best solution.								
BAC500	TNC Plug, Reverse Polarized	RG58	Crimp	4.95	4.55	4.16	3.76	3.37
BAC501	TNC Jack, Reverse Polarized	RG58	Crimp	4.95	4.55	4.16	3.76	3.37
BAC502	SMA Plug, Reverse Polarized	RG174/188/316	Crimp	4.95	4.55	4.16	3.76	3.37
BAC503	SMA Jack, Bulkhead, Reverse Polarized	RG174/188/316	Crimp	4.95	4.55	4.16	3.76	3.37
BAC511	MMCX Plug, Rt. Angle, Reverse Polarized	RG174/188/316	Crimp	5.50	5.17	4.84	4.51	4.18
BAC512	SMA Jack, Reverse Polarized	RG174/188/316	Crimp	5.50	5.17	4.84	4.51	4.18



Identifying a reverse polarized connector

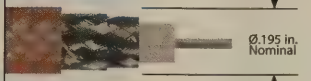
A reverse polarized coaxial connector alters a standard connector interface by utilizing a male pin center conductor in a female threaded coupling mechanism and a female basket center conductor in a male threaded coupling nut mechanism. This prevents mating with a standard non-polarized connector. This type of connector is required by FCC part 15.203 rules for spread spectrum wireless devices. Common reverse polarized interfaces are RP-SMA and RP-TNC.



Item #	Description	1-9	10-24	25-99	100-249	250-499
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RG142B/U - 50 Ohm Coaxial Cables, Double Shielded, Hi-Temperature (200°C) with BNC Plugs

RG142B/U - 50 Ohm Hi-Temperature Coaxial Cables with BNC terminations have double braided shields for better shielding as well as TFE (Tetrafluoroethylene) dielectric and FEP (Fluorinated Ethylene-Propylene) jacket for their flame proof characteristics.

RG142B/U		• Center Conductor: 18 AWG solid 0.37 silver coated copper • Shielding: 2 silver coated copper braids (96% coverage) • Insulation: TFE Teflon • Jacket: Brown FEP • Operating Temperature: -70°C - +200°C VW-1 vertical flame test compliant	NOMINAL ATTENUATION		
			MHz	db/100 ft	db/100m
			50	2.7	8.9
			100	3.9	12.8
			200	5.6	18.4
			400	8.2	26.9
			1000	13.5	44.3

RG142B/U - 50 Ohm Double Shielded Cable with Two Inline BNC Plugs

CC142B-1	RG142B Cable, BNC Male / Male, 1.0 ft	14.85	14.26	13.66	13.07	12.47
CC142B-1.5	RG142B Cable, BNC Male / Male, 1.5 ft	15.65	15.02	14.40	13.77	13.15
CC142B-2	RG142B Cable, BNC Male / Male, 2.0 ft	16.45	15.79	15.13	14.48	13.82
CC142B-2.5	RG142B Cable, BNC Male / Male, 2.5 ft	17.25	16.56	15.87	15.18	14.49
CC142B-3	RG142B Cable, BNC Male / Male, 3.0 ft	18.05	17.33	16.61	15.88	15.16
CC142B-4	RG142B Cable, BNC Male / Male, 4.0 ft	19.65	18.86	18.08	17.29	16.51
CC142B-5	RG142B Cable, BNC Male / Male, 5.0 ft	21.25	20.40	19.55	18.70	17.85
CC142B-6	RG142B Cable, BNC Male / Male, 6.0 ft	22.85	21.94	21.02	20.11	19.19
CC142B-7.5	RG142B Cable, BNC Male / Male, 7.5 ft	25.25	24.24	23.23	22.22	21.21
CC142B-10	RG142B Cable, BNC Male / Male, 10.0 ft	29.25	28.08	26.91	25.74	24.57
CC142B-15	RG142B Cable, BNC Male / Male, 15.0 ft	37.25	35.76	34.27	32.78	31.29
CC142B-25	RG142B Cable, BNC Male / Male, 25.0 ft	53.25	51.12	48.99	46.86	44.73
CC142B-50	RG142B Cable, BNC Male / Male, 50.0 ft	93.25	89.52	85.79	82.06	78.33
CC142B-75	RG142B Cable, BNC Male / Male, 75.0 ft	133.25	127.92	122.59	117.26	111.93
CC142B-100	RG142B Cable, BNC Male / Male, 100.0 ft	173.25	166.32	159.39	152.46	145.53

RG213/U - Low Attenuation, High Voltage 50 Ohm Cable with TNC, Type N and BNC Plugs

RG213/U is a commonly used flexible coaxial cable with low attenuation characteristics and a maximum operating voltage of 5000 volts RMS. Offered with TNC, Type N and BNC plugs in eight standard lengths. Custom lengths and connector combinations are available with modest minimums.

RG213/U		• Center Conductor: 13 AWG (7 x .0296) bare copper • Shielding: Bare copper braids (96% coverage) • Insulation: Solid polyethylene • Jacket: Black PVC • Operating Temperature: -40°C - +80°C	NOMINAL ATTENUATION		
			MHz	db/100 ft	db/100m
			50	1.3	4.3
			100	1.9	6.2
			200	2.7	8.9
			400	4.1	13.4
			1000	8.0	26.2
			4000	21.5	70.5

RG213/U - 50 Ohm Low Attenuation Cable with Two Inline TNC Plugs

CC213T-5	RG213 Cable, TNC Male / Male, 5.0 ft	18.25	17.52	16.79	16.06	15.33
CC213T-10	RG213 Cable, TNC Male / Male, 10.0 ft	22.00	21.12	20.24	19.36	18.48
CC213T-15	RG213 Cable, TNC Male / Male, 15.0 ft	25.75	24.72	23.69	22.66	21.63
CC213T-25	RG213 Cable, TNC Male / Male, 25.0 ft	33.25	31.92	30.59	29.26	27.93
CC213T-50	RG213 Cable, TNC Male / Male, 50.0 ft	52.00	49.92	47.84	45.76	43.68
CC213T-75	RG213 Cable, TNC Male / Male, 75.0 ft	70.75	67.92	65.09	62.26	59.43
CC213T-100	RG213 Cable, TNC Male / Male, 100.0 ft	89.50	85.92	82.34	78.76	75.18
CC213T-125	RG213 Cable, TNC Male / Male, 125.0 ft	108.25	103.92	99.59	95.26	90.93

RG213/U - 50 Ohm Coaxial Cables with Two Inline Type N Plugs

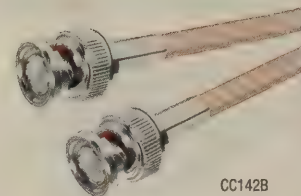
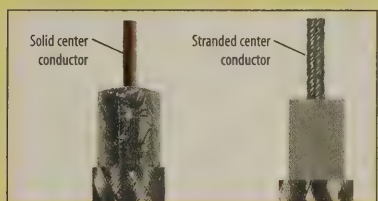
CC213-5	RG213 Cable, Type N Male / Male, 5.0 ft	18.25	17.52	16.79	16.06	15.33
CC213-10	RG213 Cable, Type N Male / Male, 10.0 ft	22.00	21.12	20.24	19.36	18.48
CC213-15	RG213 Cable, Type N Male / Male, 15.0 ft	25.75	24.72	23.69	22.66	21.63
CC213-25	RG213 Cable, Type N Male / Male, 25.0 ft	33.25	31.92	30.59	29.26	27.93
CC213-50	RG213 Cable, Type N Male / Male, 50.0 ft	52.00	49.92	47.84	45.76	43.68
CC213-75	RG213 Cable, Type N Male / Male, 75.0 ft	70.75	67.92	65.09	62.26	59.43
CC213-100	RG213 Cable, Type N Male / Male, 100.0 ft	89.50	85.92	82.34	78.76	75.18
CC213-125	RG213 Cable, Type N Male / Male, 125.0 ft	108.25	103.92	99.59	95.26	90.93

RG213/U - 50 Ohm Low Attenuation Cable with Two Inline BNC Plugs

CC213B-5	RG213 Cable, BNC Male / Male, 5.0 ft	17.50	16.80	16.10	15.40	14.70
CC213B-10	RG213 Cable, BNC Male / Male, 10.0 ft	21.25	20.40	19.55	18.70	17.85
CC213B-15	RG213 Cable, BNC Male / Male, 15.0 ft	25.00	24.00	23.00	22.00	21.00
CC213B-25	RG213 Cable, BNC Male / Male, 25.0 ft	32.50	31.20	29.90	28.60	27.30
CC213B-50	RG213 Cable, BNC Male / Male, 50.0 ft	51.25	49.20	47.15	45.10	43.05
CC213B-75	RG213 Cable, BNC Male / Male, 75.0 ft	70.00	67.20	64.40	61.60	58.80
CC213B-100	RG213 Cable, BNC Male / Male, 100.0 ft	88.75	85.20	81.65	78.10	74.55
CC213B-125	RG213 Cable, BNC Male / Male, 125.0 ft	107.50	103.20	98.90	94.60	90.30

Solid vs stranded center conductors**See The Video**www.l-com.com/Videos/A19

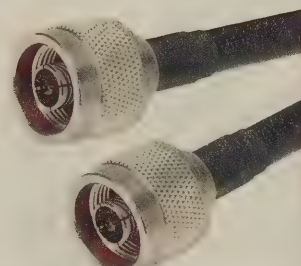
In coaxial cable there is a trade off in center conductor construction. A solid center conductor will give the best attenuation performance but will be somewhat stiff, while a stranded center conductor will be more flexible but have slightly higher attenuation.



CC142B



CC213T



CC213



CC213B

We answer your technical questions

See a complete list of frequently asked questions at L-com.com/FAQS

LOW-LOSS CABLES



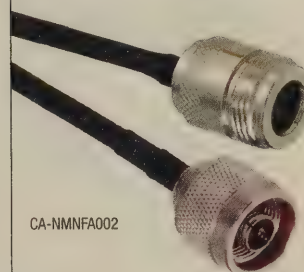
CA-MMNMCN19



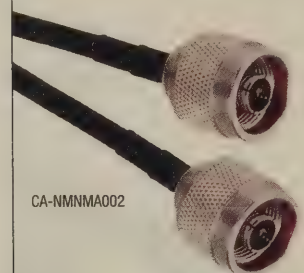
CA-AMNMCN19

Did you know...

These cables have excellent low loss characteristics and are RoHS compliant.



CA-NMNFA002



CA-NMNMA002



CA-RSPRJA010

Item #	Description	1-9	10-24	25-99	100-249	250-499
Wireless LAN Pigtails						
L-com manufactures and stocks the widest selection of wireless LAN pigtails and adapter cables. In addition to popular styles, L-com also offers hard to find connector combinations and can build custom pigtails/adapter cables based upon your specifications. Cable types supported in this series include 1.13 mini-coaxial, 100-Series and 195-Series assemblies.						
RoHS 1.13mm Mini Coaxial Pigtails						
CA-UFLNBQC20	U.F.L. to N-Female Bulkhead, 20cm	15.99	14.71	13.43	12.15	10.87
CA-UFLNMQC20	U.F.L. to N-Male, 20cm	15.99	14.71	13.43	12.15	10.87
CA-UFLRSBQC20	U.F.L. to Reverse Polarity SMA Jack Bulkhead, 20cm	15.99	14.71	13.43	12.15	10.87
CA-UFLSBQC20	U.F.L. to SMA Female Bulkhead, 20cm	15.99	14.71	13.43	12.15	10.87
CA-UFLQ010	U.F.L. to Underterminated, 10ft	16.99	15.63	14.27	12.91	11.55
CA-UFLQC20	U.F.L. to Underterminated, 20cm	12.99	11.69	10.39	9.09	7.79
RoHS 100-Series Coaxial Pigtails						
CA-AMNFCN19	AIProx to N-Female Bulkhead, 19in	9.49	9.11	8.73	8.07	7.12
CA-AMNFCN19	AIProx to N-Female, 19in	14.99	13.49	11.99	10.49	8.99
CA-AMNMC1M5	AIProx to N-Male, 1.5m	12.99	11.69	10.39	9.09	CALL
CA-AMNMCN19	AIProx to N-Male, 19in	14.99	13.49	11.99	10.49	8.99
CA-AMNMC2M5	AIProx to N-Male, 2.5m	24.95	22.46	19.96	17.47	14.97
CA-MCNFBCN19	MC Card to N-Female Bulkhead, 19in	9.99	8.99	7.99	6.99	5.99
CA-MCNFCN19	MC Card to N-Female, 19in	9.99	8.99	7.99	6.99	5.99
CA-MCNMC1M5	MC Card to N-Male, 1.5m	9.99	9.59	9.19	8.49	7.49
CA-MCNMDN19	MC Card to N-Male, 19in	12.99	11.69	10.39	9.09	7.79
CA-MCNMCN19	MC Card to N-Male, 19in	7.99	7.67	7.35	6.79	5.99
CA-MCRTPCN19	MC Card to Reverse Polarity TNC Plug, 19in	9.99	8.99	7.99	6.99	CALL
CA-MPNFCN19	MCX Plug to N-Female, 19in	14.99	13.49	11.99	10.49	8.99
CA-MPNMCN19	MCX Plug to N-Male, 19in	14.99	13.49	11.99	10.49	8.99
CA-MMSNMCN19	MMCX Straight to N-Male, 19in	19.99	17.99	15.99	13.99	11.99
CA-MMNFCN19	MMCX to N-Female Bulkhead, 19in	19.99	17.99	15.99	13.99	11.99
CA-MMNFCN19	MMCX to N-Female, 19in	14.99	13.49	11.99	10.49	8.99
CA-MMNMCN19	MMCX to N-Male, 19in	10.49	9.65	8.81	7.97	7.13
CA-RMMNFCN19	Reverse Polarity MMCX Plug to N-Female Bulkhead, 19in	18.95	17.06	15.16	13.26	11.37
CA-RMMNFCN19	Reverse Polarity MMCX to N-Female, 19in	14.99	13.79	12.59	11.39	10.19
CA-RMMNMCN19	Reverse Polarity MMCX to N-Male, 19in	9.99	9.19	8.39	7.59	6.79
CA-RMMRTPCN19	Reverse Polarity MMCX to Reverse Polarity TNC Plug, 19in	8.99	8.09	7.19	6.29	5.39
CA-RTPNMB001	Reverse Polarity TNC to N-Male, 1ft	9.99	8.99	7.99	6.99	CALL
CA-SEPNMCN19	S/E Type 237 Plug to N-Male, 19in	14.99	13.49	11.99	10.49	8.99
CA-SEPRSJCN19	S/E Type 237 Plug to Reverse Polarity SMA Jack, 19in	14.99	13.49	11.99	10.49	8.99
CA-SEPSFCN19	S/E Type 237 Plug to SMA Female, 19in	14.99	13.49	11.99	10.49	8.99
CA-SNPNMCN19	SMA Nano Plug to N-Male, 19in	14.99	13.49	11.99	10.49	CALL
CA-SNPTFBCN19	SMA Nano Plug to TNC Female Bulkhead, 19in	14.99	13.49	11.99	10.49	CALL
CA-SNPTFCN19	SMA Nano Plug to TNC Female, 19in	14.99	13.49	11.99	10.49	CALL
CA-SNPNFCN19	SMA Right Angle Male to N-Male, 19in	14.99	13.49	11.99	10.49	CALL

RoHS 195-Series Coaxial Pigtails

CA-AM1NFA010	3/4" NMO Mount to N-Female, 10ft	24.99	22.99	20.99	18.99	16.99
CA-AM1RSPA003	3/4" NMO Mount to RP SMA Plug, 3ft	24.99	22.99	20.99	18.99	16.99
CA-AM1RSPA014	3/4" NMO Mount to RP SMA Plug, 14ft	24.99	22.99	20.99	18.99	16.99
CA-AMNMA002	AIProx Male to N-Male, 2ft	14.99	13.79	12.59	11.39	10.19
CA-FMNMA002	F-Male to N-Male, 2ft	14.99	13.49	11.99	10.49	8.99
CA-NMRRSPA002	N-Male Right Angle to Reverse Polarity SMA Plug, 2ft	14.99	13.79	12.59	11.39	10.19
CA-NMNFA002	N-Male to N-Female, 2ft	9.99	9.39	8.79	8.19	7.59
CA-NMNFA004	N-Male to N-Female, 4ft	12.99	11.69	10.39	9.09	7.79
CA-NMNFA010	N-Male to N-Female, 10ft	14.99	13.49	11.99	10.49	8.99
CA-NMNFA020	N-Male to N-Female, 20ft	17.99	16.19	14.39	12.59	10.79
CA-NMNMA002	N-Male to N-Male, 2ft	14.99	13.49	11.99	10.49	8.99
CA-NMNMA004	N-Male to N-Male, 4ft	22.00	19.80	17.60	15.40	13.20
CA-NMNMA010	N-Male to N-Male, 10ft	25.00	22.50	20.00	17.50	15.00
CA-NMNMA020	N-Male to N-Male, 20ft	27.00	24.30	21.60	18.90	16.20
CA-QPNMA002	QMA Plug to N-Male, 2ft	19.99	17.99	15.99	13.99	11.99
CA-RBPNFBA002	Reverse Polarity BNC Plug to N-Female Bulkhead, 2ft	18.95	17.06	15.16	13.26	11.37
CA-RBPNFA002	Reverse Polarity BNC Plug to N-Female, 2ft	14.99	13.49	11.99	10.49	8.99
CA-RBPNMA002	Reverse Polarity BNC Plug to N-Male, 2ft	14.99	13.49	11.99	10.49	8.99
CA-RSJRTPB010	Reverse Polarity SMA Jack to Reverse Polarity TNC Plug, 10ft	19.99	17.99	15.99	13.99	11.99
CA-RSJRTPB020	Reverse Polarity SMA Jack to Reverse Polarity TNC Plug, 20ft	24.99	22.49	19.99	17.49	14.99
CA-RSPNFA002	Reverse Polarity SMA Plug to N-Female Bulkhead, 2ft	18.99	17.09	15.19	13.29	11.39
CA-RSPNFA002	Reverse Polarity SMA Plug to N-Female, 2ft	14.99	13.49	11.99	10.49	8.99
CA-RSPNMA002	Reverse Polarity SMA Plug to N-Male, 2ft	14.99	13.49	11.99	10.49	8.99
CA-RSPNMA004	Reverse Polarity SMA Plug to N-Male, 4ft	22.00	19.80	17.60	15.40	13.20
CA-RSPNMA010	Reverse Polarity SMA Plug to N-Male, 10ft	25.00	22.50	20.00	17.50	15.00
CA-RSPNMA020	Reverse Polarity SMA Plug to N-Male, 20ft	27.00	24.30	21.60	18.90	16.20
CA-RSPRNPA002	Reverse Polarity SMA Plug to Reverse Polarity N-Plug, 2ft	29.99	26.99	23.99	20.99	17.99
CA-RSPRJA010	Reverse Polarity SMA Plug to Reverse Polarity SMA Jack, 10ft	25.00	22.50	20.00	17.50	15.00
CA-RSPRJA020	Reverse Polarity SMA Plug to Reverse Polarity SMA Jack, 20ft	27.00	24.30	21.60	18.90	16.20
CA-RSPRTPA002	Reverse Polarity SMA Plug to Reverse Polarity TNC Plug, 2ft	19.99	17.99	15.99	13.99	11.99
CA-RSPRNMA002	Reverse Polarity SMA Right Angle Plug to N-Male, 2ft	14.99	13.49	11.99	10.49	8.99
CA-RSPRNMA004	Reverse Polarity SMA Right Angle Plug to N-Male, 4ft	22.00	19.80	17.60	15.40	13.20
CA-RSPRNMA010	Reverse Polarity SMA Right Angle Plug to N-Male, 10ft	25.00	22.50	20.00	17.50	15.00
CA-RSPRNMA020	Reverse Polarity SMA Right Angle Plug to N-Male, 20ft	27.00	24.30	21.60	18.90	16.20
CA-RSPRNMA002	Reverse Polarity SMA Right Angle Plug to N-Male, 4ft	14.99	13.49	11.99	10.49	8.99
CA-RSPNMB001	Reverse Polarity SMA to N-Male, 1ft	10.99	9.89	8.79	7.69	CALL
CA-RTPNFA002	Reverse Polarity TNC Plug to N-Female Bulkhead, 2ft	18.95	17.06	15.16	13.26	11.37
CA-RTPNFA004	Reverse Polarity TNC Plug to N-Female Bulkhead, 4ft	18.95	17.06	15.16	13.26	11.37
CA-RTPNFA002	Reverse Polarity TNC Plug to N-Female, 2ft	9.99	8.99	7.99	6.99	5.99
CA-RTPNFA004	Reverse Polarity TNC Plug to N-Female, 4ft	9.99	8.99	7.99	6.99	5.99
CA-RTPNFA010	Reverse Polarity TNC Plug to N-Female, 10ft	12.99	12.47	11.95	11.04	9.74

Item #	Description	1-9	10-24	25-99	100-249	250-499
RoHS 195-Series Coaxial Pigtails						
CA-RTPNMA002	Reverse Polarity TNC Plug to N-Male, 2ft	9.99	8.99	7.99	6.99	5.99
CA-RTPNMA004	Reverse Polarity TNC Plug to N-Male, 4ft	14.99	13.49	11.99	10.49	8.99
CA-RTPNMA010	Reverse Polarity TNC Plug to N-Male, 10ft	12.99	11.69	10.39	9.09	7.79
CA-RTPNMA020	Reverse Polarity TNC Plug to N-Male, 20ft	17.99	16.19	14.39	12.59	10.79
CA-RTPRTJA002	Reverse Polarity TNC Plug to Reverse Polarity TNC Jack Bulkhead, 2ft	18.99	17.09	15.19	13.29	11.39
CA-RTPRTJA004	Reverse Polarity TNC Plug to Reverse Polarity TNC Jack, 2ft	12.99	11.95	10.91	9.87	8.83
CA-RTPRTJA004	Reverse Polarity TNC Plug to Reverse Polarity TNC Jack, 4ft	22.00	19.80	17.60	15.40	13.20
CA-RTPRTJA010	Reverse Polarity TNC Plug to Reverse Polarity TNC Jack, 10ft	25.00	22.50	20.00	17.50	15.00
CA-RTPRTJA020	Reverse Polarity TNC Plug to Reverse Polarity TNC Jack, 20ft	27.00	24.30	21.60	18.90	16.20
CA-RTPRTJA002	Reverse Polarity TNC Plug to Reverse Polarity TNC Plug, 2ft	18.99	17.09	15.19	13.29	11.39
CA-RTPNMA002	Reverse Polarity TNC Right Angle Plug to N-Male, 2ft	14.99	13.79	12.59	11.39	10.19
CA-RTPNMA002	Reverse Polarity TNC Right Angle Plug to N-Male, 2ft	14.99	13.79	12.59	11.39	10.19
CA-RTPNMA004	Reverse Polarity TNC Right Angle Plug to N-Male, 4ft	22.00	19.80	17.60	15.40	13.20
CA-RTPNMA010	Reverse Polarity TNC Right Angle Plug to N-Male, 10ft	25.00	22.50	20.00	17.50	15.00
CA-RTPNMA020	Reverse Polarity TNC Right Angle Plug to N-Male, 20ft	27.00	24.30	21.60	18.90	16.20
CA-SSMNFAN06	Shrouded SMA to N-Female, 6in	10.49	9.44	8.39	7.34	CALL
CA-SSMNFAN002	Shrouded SMA to N-Male, 2ft	11.99	11.03	10.07	9.11	8.15
CA-SSMNFAN06	Shrouded SMA to N-Male, 6in	10.49	9.44	8.39	7.34	CALL
CA-SMNFBA002	SMA Male to N-Female Bulkhead, 2ft	18.99	17.09	15.19	13.29	11.39
CA-SMNFBA002	SMA Male to N-Female, 2ft	14.99	13.49	11.99	10.49	8.99
CA-SMNFBA004	SMA Male to N-Female, 4ft	18.99	17.09	15.19	13.29	11.39
CA-SMNFBA002	SMA Male to N-Male, 2ft	14.99	13.49	11.99	10.49	8.99
CA-SMNFBA004	SMA Male to N-Male, 4ft	16.99	15.29	13.59	11.89	10.19
CA-SMNFBA010	SMA Male to N-Male, 10ft	19.99	17.99	15.99	13.99	11.99
CA-SMRNFBFA002	SMA Right Angle Male to N-Female Bulkhead, 2ft	18.99	17.09	15.19	13.29	11.39
CA-SMRNFBFA002	SMA Right Angle Male to N-Female, 2ft	14.99	13.79	12.59	11.39	10.19
CA-SMRNFBFA002	SMA Right Angle Male to N-Male, 2ft	14.99	13.79	12.59	11.39	10.19
CA-TMNFBA002	TNC Male to N-Female, 2ft	14.99	13.49	11.99	10.49	8.99
CA-TMNFBA002	TNC Male to N-Male, 2ft	14.99	13.49	11.99	10.49	8.99
CA-WMNFBA002	WaveRider to N-Female, 2ft	15.99	14.71	13.43	12.15	10.87
CA-WMNFBA002	WaveRider to N-Male, 2ft	15.99	14.71	13.43	12.15	10.87
CA-WMNFBA005	WaveRider to N-Male, 5ft	16.99	15.63	14.27	12.91	11.55

Antenna Cable Assemblies

L-com manufactures high quality fully tested antenna feed cable assemblies featuring high performance, low loss coaxial cable from manufacturers such as CommScope® and Times Microwave®. These robust cables have excellent low loss characteristics and all antenna cable assemblies are RoHS compliant. L-com can manufacture custom cable assemblies to your specifications, including cable type, length and connectors. To order, visit www.L-com.com today!

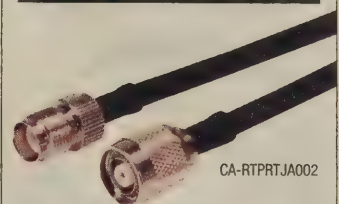
RoHS 200-Series Coaxial Assemblies

CA-NMNF004	N-Male to N-Female, 4ft	26.00	23.40	20.80	18.20	15.60
CA-NMNF010	N-Male to N-Female, 10ft	29.00	26.10	23.20	20.30	17.40
CA-NMNF020	N-Male to N-Female, 20ft	34.00	30.60	27.20	23.80	20.40
CA-NMNF010	N-Male to N-Male, 10ft	29.00	26.10	23.20	20.30	17.40
CA-NMNF010	N-Male to N-Male, 10ft	29.00	26.10	23.20	20.30	17.40
CA-NMNF020	N-Male to N-Male, 20ft	34.00	30.60	27.20	23.80	20.40
CA-NMNF002	N-Male to N-Male, 2ft	25.00	22.50	20.00	17.50	15.00
CA-NMNF002	N-Male to N-Male, 2ft	25.00	22.50	20.00	17.50	15.00
CA-NMNF004	N-Male to N-Male, 4ft	26.00	23.40	20.80	18.20	15.60
CA-NMNF004	N-Male to N-Male, 4ft	26.00	23.40	20.80	18.20	15.60
CA-NMNF050	N-Male to N-Male, 50ft	48.00	43.20	38.40	33.60	28.80
CA-RSPNME002	Reverse Polarity SMA Plug to N-Male, 2ft	25.00	22.50	20.00	17.50	15.00
CA-RSPNME004	Reverse Polarity SMA Plug to N-Male, 4ft	26.00	23.40	20.80	18.20	15.60
CA-RSPNME010	Reverse Polarity SMA Plug to N-Male, 10ft	29.00	26.10	23.20	20.30	17.40
CA-RSPNME020	Reverse Polarity SMA Plug to N-Male, 20ft	34.00	30.60	27.20	23.80	20.40
CA-RTPNFT002	Reverse Polarity TNC Plug to N-Female, 2ft	25.00	22.50	20.00	17.50	15.00
CA-RTPNFT004	Reverse Polarity TNC Plug to N-Female, 4ft	26.00	23.40	20.80	18.20	15.60
CA-RTPNFT010	Reverse Polarity TNC Plug to N-Female, 10ft	29.00	26.10	23.20	20.30	17.40
CA-SMNF002	SMA Male to N-Male, 2ft	25.00	22.50	20.00	17.50	15.00
CA-SMNF004	SMA Male to N-Male, 4ft	26.00	23.40	20.80	18.20	15.60
CA-SMNF010	SMA Male to N-Male, 10ft	29.00	26.10	23.20	20.30	17.40

RoHS 400-Series Coaxial Assemblies

CA4NMRRSP002	N-Male Right Angle to Reverse Polarity SMA Plug, 2ft	21.99	19.79	17.59	15.39	13.19
CA4NMRRTP002	N-Male Right Angle to Reverse Polarity TNC Plug, 2ft	21.99	19.79	17.59	15.39	13.19
CA4N010	N-Male to N-Female, 10ft	27.99	25.19	22.39	19.59	16.79
CA4N100	N-Male to N-Female, 100ft	119.99	110.39	100.79	91.19	81.59
CA3N002	N-Male to N-Male, 2ft	19.99	17.99	15.99	13.99	11.99
CA3N010	N-Male to N-Male, 10ft	24.99	22.49	19.99	17.49	14.99
CA3N100	N-Male to N-Male, 100ft	119.99	107.99	95.99	83.99	71.99
CA4RNPNM010	Reverse Polarity N Plug to N-Male, 10ft	22.99	21.15	19.31	17.47	15.63
CA4NMRSF002	Reverse Polarity SMA Plug to N-Male, 2ft	21.99	19.79	17.59	15.39	13.19
CA4NMRSF010	Reverse Polarity SMA Plug to N-Male, 10ft	27.99	25.19	22.39	19.59	16.79
CA4NMRSF100	Reverse Polarity SMA Plug to N-Male, 100ft	119.99	110.39	100.79	91.19	81.59
CA4RTMRTF010	Reverse Polarity TNC Jack to Reverse Polarity TNC Plug, 10ft	27.99	25.19	22.39	19.59	16.79
CA4NMRTF002	Reverse Polarity TNC Plug to N-Male, 2ft	21.99	19.79	17.59	15.39	13.19
CA4NMRTF010	Reverse Polarity TNC Plug to N-Male, 10ft	27.99	25.19	22.39	19.59	16.79
CA4NMRTF100	Reverse Polarity TNC Plug to N-Male, 100ft	119.99	110.39	100.79	91.19	81.59
CA4RTPTP010	Reverse Polarity TNC Plug to Reverse Polarity TNC Plug, 10ft	22.99	20.69	18.39	16.09	13.79
CA4NMS010	SMA Male to N-Male, 10ft	29.99	26.99	23.99	20.99	17.99

LOW-LOSS CABLES



CA-RTPRTJA002



CA-RTPNMA002



CA-TMNFBA002



CA3N010



CA4RTPTP010



CA4NMRSF002



Same day shipping

Orders placed before 4:00 EST
ship the same day.

LOW-LOSS CABLES



CA4RNPMM002



CA4RTPRP050



CA4NMRTF020

Item #	Description	1-9	10-24	25-99	100-249	250-499
RoHS 400-Series Coaxial Assemblies						
CA4N002	N-Male to N-Female, 2ft	22.99	20.69	18.39	16.09	13.79
CA4N020	N-Male to N-Female, 20ft	32.99	29.69	26.39	23.09	19.79
CA4N025	N-Male to N-Female, 25ft	39.99	35.99	31.99	27.99	23.99
CA4N050	N-Male to N-Female, 50ft	49.99	44.99	39.99	34.99	29.99
CA4N075	N-Male to N-Female, 75ft	87.99	79.19	70.39	61.59	52.79
CA3N020	N-Male to N-Male, 20ft	29.99	26.99	23.99	20.99	17.99
CA3N025	N-Male to N-Male, 25ft	34.99	31.49	27.99	24.49	20.99
CA3N030	N-Male to N-Male, 30ft	54.99	49.49	43.99	38.49	32.99
CA3N040	N-Male to N-Male, 40ft	64.99	58.49	51.99	45.49	38.99
CA3N050	N-Male to N-Male, 50ft	47.99	43.19	38.39	33.59	28.79
CA3N075	N-Male to N-Male, 75ft	87.99	79.19	70.39	61.59	52.79
CA4RNPMM002	RP N Plug to N-Male, 2ft	21.99	19.79	17.59	15.39	13.19
CA4RNPMP075	RP N Plug to RP N Plug, 75ft	89.99	82.79	75.59	68.39	61.19
CA4NMRSF020	RP-SMA Plug to N-Male, 20ft	34.99	31.49	27.99	24.49	20.99
CA4NMRSF025	RP-SMA Plug to N-Male, 25ft	39.99	35.99	31.99	27.99	23.99
CA4NMRSF030	RP-SMA Plug to N-Male, 30ft	44.99	40.49	35.99	31.49	26.99
CA4NMRSF050	RP-SMA Plug to N-Male, 50ft	49.99	44.99	39.99	34.99	29.99
CA4NMRSF075	RP-SMA Plug to N-Male, 75ft	87.99	79.19	70.39	61.59	52.79
CA4RTMRTF002	RP-TNC Jack to RP-TNC Plug, 2ft	21.99	19.79	17.59	15.39	13.19
CA4RTMRTF020	RP-TNC Jack to RP-TNC Plug, 20ft	44.99	40.49	35.99	31.49	26.99
CA4RTMRTF025	RP-TNC Jack to RP-TNC Plug, 25ft	49.99	44.99	39.99	34.99	29.99
CA4RTMRTF050	RP-TNC Jack to RP-TNC Plug, 50ft	69.99	62.99	55.99	48.99	41.99
CA4NMRTF020	RP-TNC Plug to N-Male, 20ft	39.99	35.99	31.99	27.99	23.99
CA4NMRTF025	RP-TNC Plug to N-Male, 25ft	39.99	35.99	31.99	27.99	23.99
CA4NMRTF050	RP-TNC Plug to N-Male, 50ft	49.99	44.99	39.99	34.99	29.99
CA4NMRTF075	RP-TNC Plug to N-Male, 75ft	84.99	78.19	71.39	64.59	57.79
CA4RTPRP002	RP-TNC Plug to RP-TNC Plug, 2ft	21.99	19.79	17.59	15.39	13.19
CA4RTPRP050	RP-TNC Plug to RP-TNC Plug, 50ft	44.99	43.19	41.39	38.24	33.74
CA4NMSM002	SMA Male to N-Male, 2ft	24.99	22.49	19.99	17.49	14.99
CA4NMSM025	SMA Male to N-Male, 25ft	49.99	44.99	39.99	34.99	29.99
RoHS 600-Series Coaxial Assemblies						
CA-6NMNM010	N-Male to N-Male, 10ft	52.00	46.80	41.60	36.40	31.20
CA-6NMNM025	N-Male to N-Male, 25ft	70.00	63.00	56.00	49.00	42.00
CA-6NMNM050	N-Male to N-Male, 50ft	100.00	92.00	84.00	76.00	68.00
CA-6NMNM075	N-Male to N-Male, 75ft	130.00	123.50	117.00	110.50	CALL
CA-6NMNM100	N-Male to N-Male, 100ft	160.00	152.00	144.00	136.00	CALL
RoHS 900-Series Coaxial Assemblies						
CC-9NMNF025	N-Male to N-Female, 25ft	556.00	500.40	444.80	389.20	CALL
CC-9NMNF050	N-Male to N-Female, 50ft	798.00	718.20	638.40	558.60	CALL
CC-9NMNF075	N-Male to N-Female, 75ft	1220.00	1098.00	976.00	854.00	CALL
CC-9NMNF100	N-Male to N-Female, 100ft	1550.00	1395.00	1240.00	1085.00	CALL
CC-9NMNM025	N-Male to N-Male, 25ft	556.00	500.40	444.80	389.20	CALL
CC-9NMNM050	N-Male to N-Male, 50ft	798.00	718.20	638.40	558.60	CALL
CC-9NMNM075	N-Male to N-Male, 75ft	1220.00	1098.00	976.00	854.00	CALL
CC-9NMNM100	N-Male to N-Male, 100ft	1550.00	1395.00	1240.00	1085.00	CALL

Attenuation and Avg. Power (20°C) Chart

100-Series Coaxial Cable

Frequency (MHz)	Attenuation dB (100m / 100ft)	Avg. Power (KW)
900	74.80 / 22.80	0.05
1800	108.79 / 33.16	0.03
2500	130.58 / 39.80	0.01

195-Series Coaxial Cable

Frequency (MHz)	Attenuation dB (100m / 100ft)	Avg. Power (KW)
900	36.5 / 1.11	0.15
1800	52.5 / 16.0	0.11
2500	62.4 / 19.0	0.09
5800	98.1 / 29.9	0.06

200-Series Coaxial Cable

Frequency (MHz)	Attenuation dB (100m / 100ft)	Avg. Power (KW)
900	32.6 / 9.9	0.16
1800	46.6 / 14.2	0.11
2500	55.4 / 16.9	0.10
5800	86.5 / 26.4	0.06

240-Series Coaxial Cable

Frequency (MHz)	Attenuation dB (100m / 100ft)	Avg. Power (KW)
900	24.8 / 7.6	0.23
1800	35.6 / 10.9	0.16
2500	42.4 / 12.9	0.13
5800	66.8 / 20.4	0.09

400-Series Coaxial Cable

Frequency (MHz)	Attenuation dB (100m / 100ft)	Avg. Power (KW)
900	12.8 / 3.9	0.58
1800	18.6 / 5.67	0.40
2500	22.2 / 6.8	0.33
5800	35.5 / 10.8	0.21

600-Series Coaxial Cable

Frequency (MHz)	Attenuation dB (100m / 100ft)	Avg. Power (KW)
900	8.2 / 2.5	0.93
1800	12.1 / 3.7	0.63
2500	14.5 / 4.4	0.52
5800	23.8 / 7.3	0.32

900-Series Coaxial Cable

Frequency (MHz)	Attenuation dB (100m / 100ft)	Avg. Power (KW)
900	1.70 / 5.6	1.5
1800	2.48 / 8.2	1.0
2500	2.98 / 9.8	0.9
5800	4.90 / 16.0	0.52

Item #	Description	1-9	10-24	25-99	100-249	250-499
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Bulk Cable

L-com's wide range of low-loss bulk coaxial cable includes products from CommScope®, Times Microwave® and HyperLink. This series begins with 100 Series bulk offering all the way to very low loss, high performance 900-Series cable. This bulk coaxial cable is great for making radio pigtaills or longer length antenna cables.

RoHS 100 Series Low-Loss Bulk Cable

CA100-FOOT	CommScope Bulk Cable - By the Foot	0.59	CALL	CALL	CALL	CALL
CA100-REEL	CommScope Bulk Cable - 1,000' Reel	279.99	265.99	251.99	237.99	CALL
CA100W-FOOT	CommScope White Bulk Cable - By the Foot	0.59	CALL	CALL	CALL	CALL
CA100W-REEL	CommScope White Bulk Cable - 1,000' Reel	279.99	265.99	251.99	237.99	CALL

RoHS 195R Series Low-Loss Bulk Cable

CA195R-FOOT	CommScope Bulk Cable - By the Foot	0.59	CALL	CALL	CALL	CALL
CA195RW-FOOT	HyperLink White Bulk Cable - By the Foot	0.59	CALL	CALL	CALL	CALL
CA195RW-REEL	HyperLink White Bulk Cable - 1,000' Reel	349.99	332.49	314.99	297.49	CALL
CA-195P-R500	HyperLink Plenum Rated Bulk Cable - 500' Reel	249.99	239.99	229.99	219.99	CALL
CA-195R-R1K	HyperLink Bulk Cable - 1,000' Reel	199.99	191.99	183.99	169.99	149.99

RoHS 200 Series Low-Loss Bulk Cable

CA-200-R1K	HyperLink Bulk Cable - 1,000' Reel	269.99	259.19	248.39	229.49	202.49
CA-200-FOOT	HyperLink Bulk Cable - By the Foot	0.49	CALL	CALL	CALL	CALL

RoHS 240 Series Low-Loss Bulk Cable

CA-240-R500	HyperLink Bulk Cable - 500' Reel	199.99	191.99	183.99	169.99	149.99
CA-240-FOOT	HyperLink Bulk Cable - By the Foot	0.55	CALL	CALL	CALL	CALL

RoHS 400 Series Low-Loss Bulk Cable

CA-400-FOOT	HyperLink Bulk Cable - By the Foot	0.59	CALL	CALL	CALL	CALL
CA400P-FOOT	CommScope Bulk Cable - By the Foot	3.49	CALL	CALL	CALL	CALL
CA400P-REEL	CommScope Plenum Rated Bulk Cable - 1,000' Reel	1999.99	1899.99	1799.99	1699.99	CALL
CA-400-R1K	HyperLink Bulk Cable - 1,000' Reel	369.99	351.49	332.99	314.49	CALL
CA400-REEL	CommScope Bulk Cable - 1,000' Reel	519.99	499.19	478.39	441.99	389.99
CA-400-R500	HyperLink Bulk Cable - 500' Reel	189.99	180.49	170.99	161.49	CALL

RoHS 600 Series Low-Loss Bulk Cable

CA600-REEL	CommScope Bulk Cable - 1,000' Reel	1299.00	1234.05	1169.10	1104.15	CALL
CA-600-R500	HyperLink Bulk Cable - 500' Reel	499.99	479.99	459.99	439.99	419.99
CA-600-FOOT	HyperLink Bulk Cable - By the Foot	1.35	CALL	CALL	CALL	CALL
CA-600-R1K	HyperLink Bulk Cable - 1,000' Reel	899.99	872.99	845.99	818.99	791.99

RoHS 900 Series Low-Loss Bulk Cable

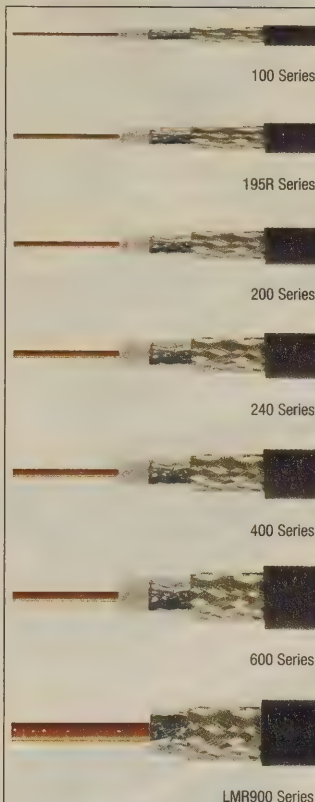
CA900DB-FOOT	Times Microwave Bulk Cable - By the Foot	5.90	CALL	CALL	CALL	CALL
CA900DB-REEL	Times Microwave Bulk Cable - 1,000' Reel	4599.99	4507.99	4415.99	4323.99	4231.99

RoHS Tools and Accessories

Our tools and accessories offering includes all the things needed to complete an installation such as weatherproof tape, cable ties, grounding kits, crimp frames and dies, crimp kits and more. These useful and necessary items are a must for any installation or maintenance person.

HT-CRIMP600	600-Series Crimp Tool with Die Set	29.99	26.99	23.99	20.99	17.99
HT-CRIMP02	100-Series Crimp Tool with Die Set	24.99	22.49	19.99	17.49	CALL
HT-CRIMP03	400-Series Crimp Tool with Die Set	34.99	31.49	27.99	24.49	20.99
HT-CRIMP04	195,200,240,300-Series Crimp Tool with Die Set	24.99	22.49	19.99	17.49	14.99
HT-KIT-01	Professional Grade Crimp Kit with Rugged Carrying Case	89.99	86.39	82.79	76.49	67.49
AT-STRIP-01	Strip Tool 100/195/200/240-Series Cable	19.99	19.19	18.39	16.99	14.99
AT-STRIP-02	Strip Tool 400-Series Cable	19.99	19.19	18.39	16.99	14.99
HT-STRIP400	Times Microwave® ST-400EZ Strip Tool for 400 Series Crimp Style Connectors	74.99	73.49	71.99	70.49	68.99
HT-STRIP600	Times Microwave® ST-400EZ Strip Tool for 600 Series Crimp Style Connectors	74.99	73.49	71.99	70.49	68.99
HT-TAPE01	3M Self-Healing Weatherproof Tape 2" x 10 ft Roll	20.99	19.94	18.89	17.84	CALL
HT-TAPE04	Self-Healing Coaxial Weatherproof Tape 1/2" x 60" Roll	3.29	3.16	3.03	2.80	2.47
HT-WIRETIE-6	Black Wire Ties 6" x .19" 100-Pack	0.07	CALL	CALL	CALL	CALL
HT-WIRETIE-11	Black Wire Ties 11" x .19" 100-Pack	0.12	CALL	CALL	CALL	CALL
HT-GK400	400-Series Cable Grounding Kit	17.99	17.27	16.55	15.29	13.49
HT-GK600	600-Series Cable Grounding Kit	17.99	17.27	16.55	15.29	13.49
HT-GK900	900-Series Cable Grounding Kit	17.99	17.27	16.55	15.29	13.49
HT-GCLAMP01	Grounding Pipe Clamp	0.99	0.94	0.89	0.84	CALL

LOW-LOSS CABLES



HT-GK400



HT-STRIP400



HT-KIT-01



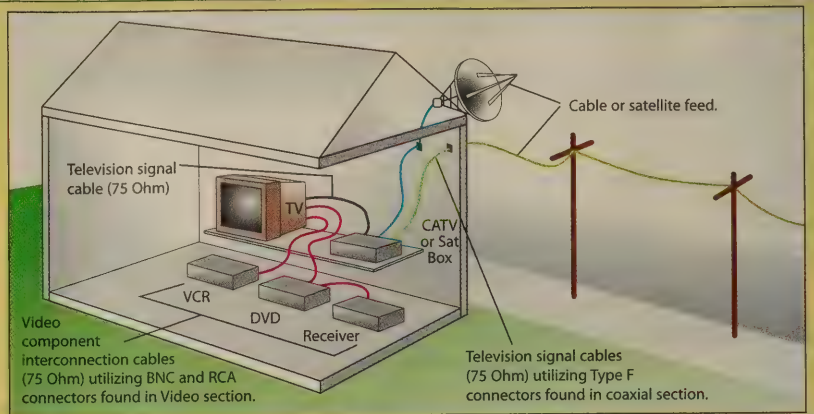
For more useful information go to....
www.L-com.com/Resources

L-com Global Connectivity

**Tip**

When is a 75 Ohm coaxial cable used?

The primary use of a 75 Ohm cable is to transmit a video signal. One of the typical applications is television signals over cable, sometimes called signal feed cables. The most common connector used in this application is a Type F. Another application is video signals between components such as DVD players, VCRs or Receivers commonly known as audio/video (A/V) cables. In this case BNC and RCA connectors are most often found. In both of these applications RG59 with both solid center conductor (RG59B/U) and stranded center conductor (RG59A/U) as well as RG6 are often found. The cable assemblies offered in the following section cover the most common connection situations found in both applications.

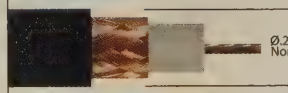


Item # Description 1-9 10-24 25-99 100-249 250-499

RG59A/U - 75 Ohm Coaxial Cables with Inline Molded BNC, Type F and RCA Plugs

L-com offers a wide variety of RG59A/U cable assemblies utilizing BNC, Type F and RCA connectors. RG59A/U cable is one of the most commonly used 75 Ohm cables. In addition to inline configurations L-com offers right angle and female bulkheads. All connectors feature a molded strain relief while the Type F connector features a captivated gold plated center pin for enhanced performance. The stranded center conductor of the RG59A/U cable provides maximum flexibility.

RG59A/U



75 Ohm Impedance

- Center Conductor: 22 (7x30) AWG bare compacted copper
- Shielding: Bare copper braid (96% coverage)
- Insulation: Foam polyethylene
- Jacket: Black PVC
- Operating Temperature: -40°C - +80°C

NOMINAL ATTENUATION

MHz	db/100 ft	db/100m
50	2.1	6.9
100	3.0	9.8
200	4.5	14.8
400	6.6	21.7
1000	10.9	35.8

RG59A/U - 75 Ohm Coaxial Cables with Two Inline BNC Plugs

Item #	Description	1-9	10-24	25-99	100-249	250-499
CC59A-05	RG59A Cable, BNC Male / Male, 0.5 ft	8.75	8.40	8.05	7.70	7.35
CC59A-1	RG59A Cable, BNC Male / Male, 1.0 ft	9.00	8.64	8.28	7.92	7.56
CC59A-1.5	RG59A Cable, BNC Male / Male, 1.5 ft	9.25	8.88	8.51	8.14	7.77
CC59A-2	RG59A Cable, BNC Male / Male, 2.0 ft	9.50	9.12	8.74	8.36	7.98
CC59A-2.5	RG59A Cable, BNC Male / Male, 2.5 ft	9.75	9.36	8.97	8.58	8.19
CC59A-3	RG59A Cable, BNC Male / Male, 3.0 ft	10.00	9.60	9.20	8.80	8.40
CC59A-4	RG59A Cable, BNC Male / Male, 4.0 ft	10.50	10.08	9.66	9.24	8.82
CC59A-5	RG59A Cable, BNC Male / Male, 5.0 ft	11.00	10.56	10.12	9.68	9.24
CC59A-6	RG59A Cable, BNC Male / Male, 6.0 ft	11.50	11.04	10.58	10.12	9.66
CC59A-7.5	RG59A Cable, BNC Male / Male, 7.5 ft	12.25	11.76	11.27	10.78	10.29
CC59A-10	RG59A Cable, BNC Male / Male, 10.0 ft	13.50	12.96	12.42	11.88	11.34
CC59A-12	RG59A Cable, BNC Male / Male, 12.0 ft	14.50	13.92	13.34	12.76	12.18
CC59A-15	RG59A Cable, BNC Male / Male, 15.0 ft	16.00	15.36	14.72	14.08	13.44
CC59A-25	RG59A Cable, BNC Male / Male, 25.0 ft	21.00	20.16	19.32	18.48	17.64
CC59A-50	RG59A Cable, BNC Male / Male, 50.0 ft	33.50	32.16	30.82	29.48	28.14
CC59A-75	RG59A Cable, BNC Male / Male, 75.0 ft	46.00	44.16	42.32	40.48	38.64
CC59A-100	RG59A Cable, BNC Male / Male, 100.0 ft	58.50	56.16	53.82	51.48	49.14
CC59A-150	RG59A Cable, BNC Male / Male, 150.0 ft	83.50	80.16	76.82	73.48	70.14
CC59A-200	RG59A Cable, BNC Male / Male, 200.0 ft	108.50	104.16	99.82	95.48	91.14

RG59A/U - 75 Ohm Coaxial Cables with Inline BNC Plug to BNC Jack

Item #	Description	1-9	10-24	25-99	100-249	250-499
CC59A-MF-1	RG59A Cable, BNC Male / Female Bulkhead, 1.0 ft	14.50	13.63	12.76	11.89	11.02
CC59A-MF-3	RG59A Cable, BNC Male / Female Bulkhead, 3.0 ft	15.50	14.57	13.64	12.71	11.78
CC59A-MF-6	RG59A Cable, BNC Male / Female Bulkhead, 6.0 ft	17.00	15.98	14.96	13.94	12.92
CC59A-MF-10	RG59A Cable, BNC Male / Female Bulkhead, 10.0 ft	19.00	17.86	16.72	15.58	14.44
CC59A-MF-15	RG59A Cable, BNC Male / Female Bulkhead, 15.0 ft	21.50	20.21	18.92	17.63	16.34
CC59A-MF-25	RG59A Cable, BNC Male / Female Bulkhead, 25.0 ft	26.50	24.91	23.32	21.73	20.14
CC59A-MF-50	RG59A Cable, BNC Male / Female Bulkhead, 50.0 ft	39.00	36.66	34.32	31.98	29.64

RG59A/U - 75 Ohm Coaxial Cables with Inline BNC to Right Angle BNC Plugs

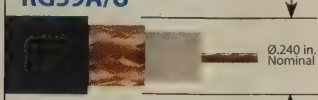
Item #	Description	1-9	10-24	25-99	100-249	250-499
CC59A-1HR	RG59A Cable, BNC Male / 90° Male, 1.0 ft	11.25	10.80	10.35	9.90	9.45
CC59A-1.5HR	RG59A Cable, BNC Male / 90° Male, 1.5 ft	11.50	11.04	10.58	10.12	9.66
CC59A-2HR	RG59A Cable, BNC Male / 90° Male, 2.0 ft	11.75	11.28	10.81	10.34	9.87
CC59A-2.5HR	RG59A Cable, BNC Male / 90° Male, 2.5 ft	12.00	11.52	11.04	10.56	10.08
CC59A-3HR	RG59A Cable, BNC Male / 90° Male, 3.0 ft	12.25	11.76	11.27	10.78	10.29
CC59A-4HR	RG59A Cable, BNC Male / 90° Male, 4.0 ft	12.75	12.24	11.73	11.22	10.71
CC59A-5HR	RG59A Cable, BNC Male / 90° Male, 5.0 ft	13.25	12.72	12.19	11.66	11.13
CC59A-7.5HR	RG59A Cable, BNC Male / 90° Male, 7.5 ft	14.50	13.92	13.34	12.76	12.18
CC59A-10HR	RG59A Cable, BNC Male / 90° Male, 10.0 ft	15.75	15.12	14.49	13.86	13.23

RG59A/U - 75 Ohm Coaxial Cables with Two Right Angle BNC Plugs

Item #	Description	1-9	10-24	25-99	100-249	250-499
CC59A-1HR2	RG59A Cable, BNC 90° Male / 90° Male, 1.0 ft	15.00	14.40	13.80	13.20	12.60
CC59A-1.5HR2	RG59A Cable, BNC 90° Male / 90° Male, 1.5 ft	15.25	14.64	14.03	13.42	12.81
CC59A-2HR2	RG59A Cable, BNC 90° Male / 90° Male, 2.0 ft	15.50	14.88	14.26	13.64	13.02
CC59A-2.5HR2	RG59A Cable, BNC 90° Male / 90° Male, 2.5 ft	15.75	15.12	14.49	13.86	13.23
CC59A-3HR2	RG59A Cable, BNC 90° Male / 90° Male, 3.0 ft	16.00	15.36	14.72	14.08	13.44
CC59A-4HR2	RG59A Cable, BNC 90° Male / 90° Male, 4.0 ft	16.50	15.84	15.18	14.52	13.86
CC59A-5HR2	RG59A Cable, BNC 90° Male / 90° Male, 5.0 ft	17.00	16.32	15.64	14.96	14.28
CC59A-7.5HR2	RG59A Cable, BNC 90° Male / 90° Male, 7.5 ft	18.25	17.52	16.79	16.06	15.33
CC59A-10HR2	RG59A Cable, BNC 90° Male / 90° Male, 10.0 ft	19.50	18.72	17.94	17.16	16.38



"I just received my first catalog and am very impressed by the offerings and the layout. The information panels (tips) provide excellent guidance in product selection and are quite effective in educating the consumer." - William P.

Item #	Description	1-9	10-24	25-99	100-249	250-499
RG59A/U			NOMINAL ATTENUATION			
			MHz	db/100 ft	db/100m	
	• Center Conductor: 22 (7x30) AWG bare compacted copper		50	2.1	6.9	
	• Shielding: Bare copper braid (96% coverage)		100	3.0	9.8	
	• Insulation: Foam polyethylene		200	4.5	14.8	
	• Jacket: Black PVC		400	6.6	21.7	
	• Operating Temperature: -40°C - +80°C		1000	10.9	35.8	

RoHS RG59A/U - 75 Ohm Coaxial Cables with Inline BNC to Type F Plug

CC59A-BF-1	RG59A Cable, BNC Male / Type F Male, 1.0 ft	6.00	5.76	5.52	5.28	5.04
CC59A-BF-3	RG59A Cable, BNC Male / Type F Male, 3.0 ft	7.00	6.72	6.44	6.16	5.88
CC59A-BF-6	RG59A Cable, BNC Male / Type F Male, 6.0 ft	8.50	8.16	7.82	7.48	7.14
CC59A-BF-9	RG59A Cable, BNC Male / Type F Male, 9.0 ft	10.00	9.60	9.20	8.80	8.40
CC59A-BF-12	RG59A Cable, BNC Male / Type F Male, 12.0 ft	11.50	11.04	10.58	10.12	9.66

RoHS RG59A/U - 75 Ohm Coaxial Cables with Two Type F Plugs

CCF59-1	RG59A Cable, Type F Male / Male, 1.0 ft	4.50	4.32	4.14	3.96	3.78
CCF59-3	RG59A Cable, Type F Male / Male, 3.0 ft	5.50	5.28	5.06	4.84	4.62
CCF59-6	RG59A Cable, Type F Male / Male, 6.0 ft	7.00	6.72	6.44	6.16	5.88
CCF59-9	RG59A Cable, Type F Male / Male, 9.0 ft	8.50	8.16	7.82	7.48	7.14
CCF59-12	RG59A Cable, Type F Male / Male, 12.0 ft	10.00	9.60	9.20	8.80	8.40
CCF59-25	RG59A Cable, Type F Male / Male, 25.0 ft	16.50	15.84	15.18	14.52	13.86
CCF59-50	RG59A Cable, Type F Male / Male, 50.0 ft	29.00	27.84	26.68	25.52	24.36
CCF59-100	RG59A Cable, Type F Male / Male, 100.0 ft	54.00	51.84	49.68	47.52	45.36

RoHS RG59A/U - 75 Ohm Coaxial Cables with One Inline Type F Plug and One Type F Bulkhead Jack

CCF59-MF-1	RG59A Cable, Type F Male / Female, 1.0 ft	8.40	7.90	7.39	6.89	6.38
CCF59-MF-6	RG59A Cable, Type F Male / Female, 6.0 ft	10.90	10.25	9.59	8.94	8.28
CCF59-MF-12	RG59A Cable, Type F Male / Female, 12.0 ft	13.90	13.07	12.23	11.40	10.56
CCF59-MF-25	RG59A Cable, Type F Male / Female, 25.0 ft	20.40	19.18	17.95	16.73	15.50
CCF59-MF-50	RG59A Cable, Type F Male / Female, 50.0 ft	32.90	30.93	28.95	26.98	25.00

RoHS RG59A/U - 75 Ohm Coaxial Cables with Two Inline RCA Plugs

CC59A-RR-1	RG59A Cable, RCA Male / Male, 1.0 ft	4.50	4.32	4.14	3.96	3.78
CC59A-RR-3	RG59A Cable, RCA Male / Male, 3.0 ft	5.50	5.28	5.06	4.84	4.62
CC59A-RR-6	RG59A Cable, RCA Male / Male, 6.0 ft	7.00	6.72	6.44	6.16	5.88
CC59A-RR-9	RG59A Cable, RCA Male / Male, 9.0 ft	8.50	8.16	7.82	7.48	7.14
CC59A-RR-12	RG59A Cable, RCA Male / Male, 12.0 ft	10.00	9.60	9.20	8.80	8.40

RoHS RG59A/U - 75 Ohm Coaxial Cables with Inline RCA to Inline BNC Plug

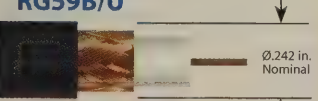
CC59A-RB-1	RG59A Cable, RCA Male / BNC Male, 1.0 ft	4.50	4.32	4.14	3.96	3.78
CC59A-RB-3	RG59A Cable, RCA Male / BNC Male, 3.0 ft	5.50	5.28	5.06	4.84	4.62
CC59A-RB-6	RG59A Cable, RCA Male / BNC Male, 6.0 ft	7.00	6.72	6.44	6.16	5.88
CC59A-RB-9	RG59A Cable, RCA Male / BNC Male, 9.0 ft	8.50	8.16	7.82	7.48	7.14
CC59A-RB-12	RG59A Cable, RCA Male / BNC Male, 12.0 ft	10.00	9.60	9.20	8.80	8.40

RoHS RG59A/U - 75 Ohm Coaxial Cables with Inline RCA to Type F Plug

CC59A-RF-1	RG59A Cable, RCA Male / Type F Male, 1.0 ft	4.50	4.32	4.14	3.96	3.78
CC59A-RF-3	RG59A Cable, RCA Male / Type F Male, 3.0 ft	5.50	5.28	5.06	4.84	4.62
CC59A-RF-6	RG59A Cable, RCA Male / Type F Male, 6.0 ft	7.00	6.72	6.44	6.16	5.88
CC59A-RF-9	RG59A Cable, RCA Male / Type F Male, 9.0 ft	8.50	8.16	7.82	7.48	7.14
CC59A-RF-12	RG59A Cable, RCA Male / Type F Male, 12.0 ft	10.00	9.60	9.20	8.80	8.40

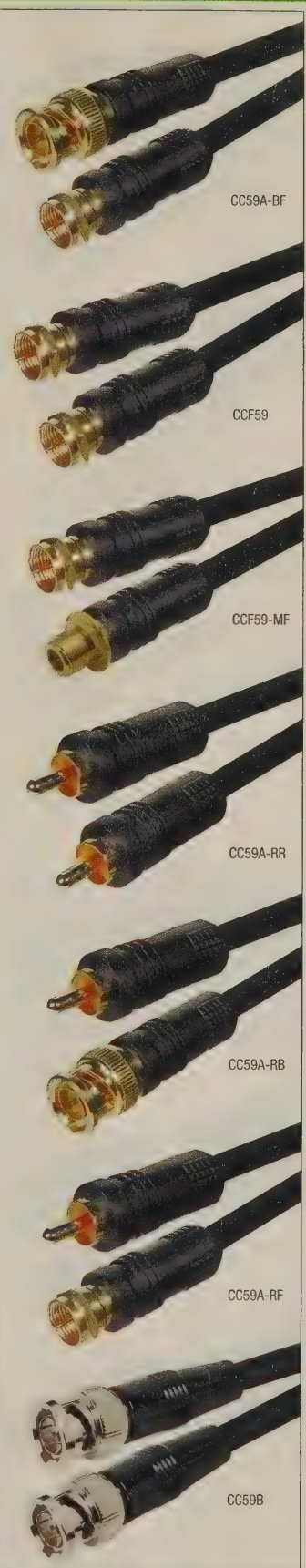
RG59B/U - 75 Ohm Coaxial Cables with Molded BNC and Type F Plugs

L-com offers a wide variety of RG59B/U cable assemblies utilizing BNC and Type F (next pg.) connectors. RG59B/U cable is one of the most commonly used 75 Ohm cables. In addition to inline configurations L-com offers right angle and female bulkheads. All connectors feature a molded strain relief while the Type F connector features a captivated gold plated center pin for enhanced performance. The solid center conductor of the RG59B/U cable provides optimum insertion loss performance.

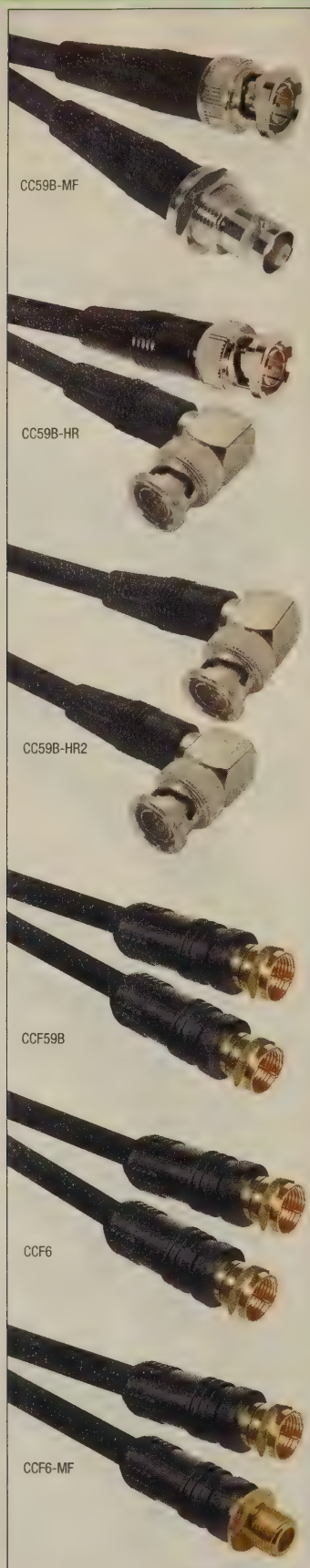
RG59B/U			NOMINAL ATTENUATION			
			MHz	db/100 ft	db/100m	
	• Center Conductor: 22 AWG solid bare copper covered steel		50	2.4	7.9	
	• Shielding: Bare copper braid (95% coverage)		100	3.4	11.1	
	• Insulation: Polyethylene		200	4.9	16.1	
	• Jacket: Black PVC		400	7.0	23.0	
	• Operating Temperature: -40°C - +80°C		1000	12.0	39.3	

RoHS RG59B/U - 75 Ohm Coaxial Cables with Two Inline BNC Plugs

CC59B-05	RG59B Cable, BNC Male / Male, 0.5 ft	8.75	8.40	8.05	7.70	7.35
CC59B-1	RG59B Cable, BNC Male / Male, 1.0 ft	9.00	8.64	8.28	7.92	7.56
CC59B-1.5	RG59B Cable, BNC Male / Male, 1.5 ft	9.25	8.88	8.51	8.14	7.77
CC59B-2	RG59B Cable, BNC Male / Male, 2.0 ft	9.50	9.12	8.74	8.36	7.98
CC59B-2.5	RG59B Cable, BNC Male / Male, 2.5 ft	9.75	9.36	8.97	8.58	8.19
CC59B-3	RG59B Cable, BNC Male / Male, 3.0 ft	10.00	9.60	9.20	8.80	8.40
CC59B-4	RG59B Cable, BNC Male / Male, 4.0 ft	10.50	10.08	9.66	9.24	8.82
CC59B-5	RG59B Cable, BNC Male / Male, 5.0 ft	11.00	10.56	10.12	9.68	9.24
CC59B-6	RG59B Cable, BNC Male / Male, 6.0 ft	11.50	11.04	10.58	10.12	9.66
CC59B-7.5	RG59B Cable, BNC Male / Male, 7.5 ft	12.25	11.76	11.27	10.78	10.29
CC59B-10	RG59B Cable, BNC Male / Male, 10.0 ft	13.50	12.96	12.42	11.88	11.34
CC59B-12	RG59B Cable, BNC Male / Male, 12.0 ft	14.50	13.92	13.34	12.76	12.18
CC59B-15	RG59B Cable, BNC Male / Male, 15.0 ft	16.00	15.36	14.72	14.08	13.44
CC59B-25	RG59B Cable, BNC Male / Male, 25.0 ft	21.00	20.16	19.32	18.48	17.64
CC59B-50	RG59B Cable, BNC Male / Male, 50.0 ft	33.50	32.16	30.82	29.48	28.14
CC59B-75	RG59B Cable, BNC Male / Male, 75.0 ft	46.00	44.16	42.32	40.48	38.64
CC59B-100	RG59B Cable, BNC Male / Male, 100.0 ft	58.50	56.16	53.82	51.48	49.14
CC59B-150	RG59B Cable, BNC Male / Male, 150.0 ft	83.50	80.16	76.82	73.48	70.14
CC59B-200	RG59B Cable, BNC Male / Male, 200.0 ft	108.50	104.16	99.82	95.48	91.14

**Informative e-mail newsletters**

Our newsletters are packed with tips, tutorials, product info and downloads! L-com.com/NewsletterSignUp



Item #	Description	1-9	10-24	25-99	100-249	250-499
RG59B/U 75 Ohm Impedance	• Center Conductor: 22 AWG solid bare copper covered steel • Shielding: Bare copper braid (95% coverage) • Insulation: Polyethylene • Jacket: Black PVC • Operating Temperature: -40°C - +80°C	NOMINAL ATTENUATION				
		MHz	db/100 ft	db/100m		
		50	2.4	7.9		
		100	3.4	11.1		
		200	4.9	16.1		
		400	7.0	23.0		
		1000	12.0	39.3		

✓RoHS RG59B/U - 75 Ohm Coaxial Cables with Inline BNC Plug to BNC Jack

CC59B-MF-1	RG59B Cable, BNC Male / Female Bulkhead, 1.0 ft	12.00	11.28	10.56	9.84	9.12
CC59B-MF-3	RG59B Cable, BNC Male / Female Bulkhead, 3.0 ft	13.00	12.22	11.44	10.66	9.88
CC59B-MF-6	RG59B Cable, BNC Male / Female Bulkhead, 6.0 ft	14.50	13.63	12.76	11.89	11.02
CC59B-MF-10	RG59B Cable, BNC Male / Female Bulkhead, 10.0 ft	16.50	15.51	14.52	13.53	12.54
CC59B-MF-15	RG59B Cable, BNC Male / Female Bulkhead, 15.0 ft	19.00	17.86	16.72	15.58	14.44
CC59B-MF-25	RG59B Cable, BNC Male / Female Bulkhead, 25.0 ft	24.00	22.56	21.12	19.68	18.24
CC59B-MF-50	RG59B Cable, BNC Male / Female Bulkhead, 50.0 ft	36.50	34.31	32.12	29.93	27.74

✓RoHS RG59B/U - 75 Ohm Coaxial Cables with One Inline BNC to One Right Angle BNC Plug

CC59B-1HR	RG59B Cable, BNC Male / 90° Male, 1.0 ft	11.25	10.80	10.35	9.90	9.45
CC59B-1.5HR	RG59B Cable, BNC Male / 90° Male, 1.5 ft	11.50	11.04	10.58	10.12	9.66
CC59B-2HR	RG59B Cable, BNC Male / 90° Male, 2.0 ft	11.75	11.28	10.81	10.34	9.87
CC59B-2.5HR	RG59B Cable, BNC Male / 90° Male, 2.5 ft	12.00	11.52	11.04	10.56	10.08
CC59B-3HR	RG59B Cable, BNC Male / 90° Male, 3.0 ft	12.25	11.76	11.27	10.78	10.29
CC59B-4HR	RG59B Cable, BNC Male / 90° Male, 4.0 ft	12.75	12.24	11.73	11.22	10.71
CC59B-5HR	RG59B Cable, BNC Male / 90° Male, 5.0 ft	13.25	12.72	12.19	11.66	11.13
CC59B-7.5HR	RG59B Cable, BNC Male / 90° Male, 7.5 ft	14.50	13.92	13.34	12.76	12.18
CC59B-10HR	RG59B Cable, BNC Male / 90° Male, 10.0 ft	15.75	15.12	14.49	13.86	13.23

✓RoHS RG59B/U - 75 Ohm Coaxial Cables with Two Right Angle BNC Plugs

CC59B-1HR2	RG59B Cable, BNC 90° Male / 90° Male, 1.0 ft	15.00	14.40	13.80	13.20	12.60
CC59B-1.5HR2	RG59B Cable, BNC 90° Male / 90° Male, 1.5 ft	15.25	14.64	14.03	13.42	12.81
CC59B-2HR2	RG59B Cable, BNC 90° Male / 90° Male, 2.0 ft	15.50	14.88	14.26	13.64	13.02
CC59B-2.5HR2	RG59B Cable, BNC 90° Male / 90° Male, 2.5 ft	15.75	15.12	14.49	13.86	13.23
CC59B-3HR2	RG59B Cable, BNC 90° Male / 90° Male, 3.0 ft	16.00	15.36	14.72	14.08	13.44
CC59B-4HR2	RG59B Cable, BNC 90° Male / 90° Male, 4.0 ft	16.50	15.84	15.18	14.52	13.86
CC59B-5HR2	RG59B Cable, BNC 90° Male / 90° Male, 5.0 ft	17.00	16.32	15.64	14.96	14.28
CC59B-7.5HR2	RG59B Cable, BNC 90° Male / 90° Male, 7.5 ft	18.25	17.52	16.79	16.06	15.33
CC59B-10HR2	RG59B Cable, BNC 90° Male / 90° Male, 10.0 ft	19.50	18.72	17.94	17.16	16.38

RG59B/U - 75 Ohm Coaxial Cables with Two Inline Molded Type F Plugs

CCF59B-1	RG59B Cable, Type F Male / Male, 1.0 ft	4.50	4.32	4.14	3.96	3.78
CCF59B-3	RG59B Cable, Type F Male / Male, 3.0 ft	5.50	5.28	5.06	4.84	4.62
CCF59B-6	RG59B Cable, Type F Male / Male, 6.0 ft	7.00	6.72	6.44	6.16	5.88
CCF59B-9	RG59B Cable, Type F Male / Male, 9.0 ft	8.50	8.16	7.82	7.48	7.14
CCF59B-12	RG59B Cable, Type F Male / Male, 12.0 ft	10.00	9.60	9.20	8.80	8.40
CCF59B-25	RG59B Cable, Type F Male / Male, 25.0 ft	16.50	15.84	15.18	14.52	13.86
CCF59B-50	RG59B Cable, Type F Male / Male, 50.0 ft	29.00	27.84	26.68	25.52	24.36
CCF59B-100	RG59B Cable, Type F Male / Male, 100.0 ft	54.00	51.84	49.68	47.52	45.36

RG6/U - 75 Ohm Coaxial Cables with Two Inline Type F Plugs

This series features low loss RG6 coaxial cable popular in transmission of television signal over cable. Features include: gold flash on connector surfaces, molded strain relief on the connector for superior protection and a captivated gold plated center conductor, not the cable's center conductor typically found in lower quality assemblies.

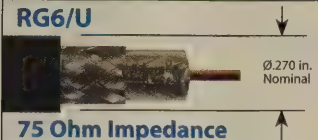
RG6/U 75 Ohm Impedance	• Center Conductor: 18 AWG solid bare copper covered steel • Shielding: Inner foil (100% coverage); Outer, copper braid (60% coverage) • Insulation: Foam Polyethylene • Jacket: Black PVC • Operating Temperature: -40°C - +80°C	NOMINAL ATTENUATION		
		MHz	db/100 ft	db/100m
		50	1.5	4.9
		100	2.1	6.9
		200	3.1	10.2
		400	4.5	14.8
		1000	7.3	23.9

CCF6-1	RG6 Cable, Type F Male / Male, 1.0 ft	5.75	5.18	4.60	4.02	3.45
CCF6-3	RG6 Cable, Type F Male / Male, 3.0 ft	6.75	6.08	5.40	4.72	4.05
CCF6-6	RG6 Cable, Type F Male / Male, 6.0 ft	8.25	7.43	6.60	5.78	4.95
CCF6-9	RG6 Cable, Type F Male / Male, 9.0 ft	9.75	8.78	7.80	6.82	5.85
CCF6-12	RG6 Cable, Type F Male / Male, 12.0 ft	11.25	10.13	9.00	7.87	6.75
CCF6-25	RG6 Cable, Type F Male / Male, 25.0 ft	17.75	15.98	14.20	12.43	10.65
CCF6-50	RG6 Cable, Type F Male / Male, 50.0 ft	30.25	27.23	24.20	21.17	18.15
CCF6-100	RG6 Cable, Type F Male / Male, 100.0 ft	55.25	49.73	44.20	38.67	33.15

✓RoHS RG6/U - 75 Ohm Coaxial Cable with One Inline Type F Plug and One Type F Bulkhead Jack

CCF6-MF-1	RG6 Cable, Type F Male / Female Bulkhead, 1.0 ft	6.40	6.02	5.63	5.25	4.86
CCF6-MF-6	RG6 Cable, Type F Male / Female Bulkhead, 6.0 ft	10.15	9.54	8.93	8.32	7.71
CCF6-MF-12	RG6 Cable, Type F Male / Female Bulkhead, 12.0 ft	14.65	13.77	12.89	12.01	11.13
CCF6-MF-25	RG6 Cable, Type F Male / Female Bulkhead, 25.0 ft	24.40	22.94	21.47	20.01	18.54
CCF6-MF-50	RG6 Cable, Type F Male / Female Bulkhead, 50.0 ft	43.15	40.56	37.97	35.38	32.79



Item #	Description	1-9	10-24	25-99	100-249	250-499
RG6/U  75 Ohm Impedance	- Center Conductor: 18 AWG solid bare copper covered steel - Shielding: Inner foil (100% coverage); Outer, copper braid (60% coverage) - Insulation: Foam Polyethylene - Jacket: Black PVC - Operating Temperature: -40°C - +80°C	NOMINAL ATTENUATION				
		MHz	db/100 ft	db/100m		
		50	1.5	4.9		
		100	2.1	6.9		
		200	3.1	10.2		
		400	4.5	14.8		
		1000	7.3	23.9		

RoHS RG6 Quad Shield - 75 Ohm Coaxial Cable Assemblies with Inline Type F Plugs

This series features premium grade RG6 cable with four layers of shielding for enhanced performance coupled with our BAC529 weather resistant Type F male connectors. These Type F connectors utilize both silicone sealant as well as an internal O-ring to achieve performance suitable for both indoor and outdoor applications.

CC6QF-05	RG6 Cable, Type F Male / Male, 0.5 ft	20.00	18.80	17.60	16.40	15.20
CC6QF-1	RG6 Cable, Type F Male / Male, 1.0 ft	20.25	19.04	17.82	16.61	15.39
CC6QF-3	RG6 Cable, Type F Male / Male, 3.0 ft	21.25	19.97	18.70	17.43	16.15
CC6QF-6	RG6 Cable, Type F Male / Male, 6.0 ft	22.75	21.39	20.02	18.65	17.29
CC6QF-9	RG6 Cable, Type F Male / Male, 9.0 ft	24.25	22.80	21.34	19.88	18.43
CC6QF-12	RG6 Cable, Type F Male / Male, 12.0 ft	25.75	24.21	22.66	21.12	19.57
CC6QF-25	RG6 Cable, Type F Male / Male, 25.0 ft	32.25	30.32	28.38	26.44	24.51
CC6QF-50	RG6 Cable, Type F Male / Male, 50.0 ft	44.75	42.07	39.38	36.70	34.01

RG59 and RG6 Plenum - 75 Ohm Cable with Inline BNC Plugs

This series offers the commonly used RG6 and RG59 cable sizes with a plenum jacket for applications that require this level of fire retardation and low smoke attributes. Offered with BNC male connectors in eight convenient lengths. Custom lengths available with modest minimums.

RG59 Plenum- 75 Ohm Coaxial Cable with Two Inline BNC Plugs

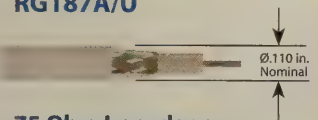
CC59PB-1	RG59 Plenum Cable, BNC Male / Male, 1.0 ft	32.00	30.72	29.44	28.16	26.88
CC59PB-1.5	RG59 Plenum Cable, BNC Male / Male, 1.5 ft	33.50	32.16	30.82	29.48	28.14
CC59PB-2	RG59 Plenum Cable, BNC Male / Male, 2.0 ft	35.00	33.60	32.20	30.80	29.40
CC59PB-2.5	RG59 Plenum Cable, BNC Male / Male, 2.5 ft	36.50	35.04	33.58	32.12	30.66
CC59PB-5	RG59 Plenum Cable, BNC Male / Male, 5.0 ft	44.00	42.24	40.48	38.72	36.96
CC59PB-7.5	RG59 Plenum Cable, BNC Male / Male, 7.5 ft	51.50	49.44	47.38	45.32	43.26
CC59PB-10	RG59 Plenum Cable, BNC Male / Male, 10.0 ft	59.00	56.64	54.28	51.92	49.56
CC59PB-15	RG59 Plenum Cable, BNC Male / Male, 15.0 ft	74.00	71.04	68.08	65.12	62.16

RoHS RG6 Plenum- 75 Ohm Coaxial Cable with Two Inline BNC Plugs

CC6PB-1	RG6 Plenum Cable, BNC Male / Male, 1.0 ft	31.00	29.76	28.52	27.28	26.04
CC6PB-1.5	RG6 Plenum Cable, BNC Male / Male, 1.5 ft	32.00	30.72	29.44	28.16	26.88
CC6PB-2	RG6 Plenum Cable, BNC Male / Male, 2.0 ft	34.00	32.64	31.28	29.92	28.56
CC6PB-2.5	RG6 Plenum Cable, BNC Male / Male, 2.5 ft	35.00	33.60	32.20	30.80	29.40
CC6PB-5	RG6 Plenum Cable, BNC Male / Male, 5.0 ft	40.00	38.40	36.80	35.20	33.60
CC6PB-7.5	RG6 Plenum Cable, BNC Male / Male, 7.5 ft	45.00	43.20	41.40	39.60	37.80
CC6PB-10	RG6 Plenum Cable, BNC Male / Male, 10.0 ft	50.00	48.00	46.00	44.00	42.00
CC6PB-15	RG6 Plenum Cable, BNC Male / Male, 15.0 ft	60.00	57.60	55.20	52.80	50.40

RG187A/U - Hi-Temperature 75 Ohm Cable with Inline BNC and Type F Plugs

This series features a small diameter (.110) 75 Ohm cable with a 200°C operating temperature. Offered with BNC and Type F male connectors in eight standard lengths. Custom lengths and connector combinations available with modest minimums.

RG187A/U  75 Ohm Impedance	- Center Conductor: 30 AWG (7 x 38) stranded silver plated copper covered steel - Shielding: Silver coated copper braid (95% coverage) - Insulation: TFE teflon - Jacket: TFE teflon tape wrap - Operating Temperature: -70°C - +200°C	NOMINAL ATTENUATION				
		MHz	db/100 ft	db/100m		
		50	8.5	27.9		
		100	10.0	32.8		
		200	12.5	41.0		
		400	16.0	52.5		
		1000	24.0	78.7		

RG187A/U - 75 Ohm Coaxial Cable Hi-Temperature with Two Inline BNC Plugs

CC187B-1	RG187 Cable, BNC Male / Male, 1.0 ft	33.50	32.16	30.82	29.48	28.14
CC187B-1.5	RG187 Cable, BNC Male / Male, 1.5 ft	35.00	33.60	32.20	30.80	29.40
CC187B-2	RG187 Cable, BNC Male / Male, 2.0 ft	36.50	35.04	33.58	32.12	30.66
CC187B-2.5	RG187 Cable, BNC Male / Male, 2.5 ft	38.00	36.48	34.96	33.44	31.92
CC187B-5	RG187 Cable, BNC Male / Male, 5.0 ft	45.50	43.68	41.86	40.04	38.22
CC187B-7.5	RG187 Cable, BNC Male / Male, 7.5 ft	53.00	50.88	48.76	46.64	44.52
CC187B-10	RG187 Cable, BNC Male / Male, 10.0 ft	60.50	58.08	55.66	53.24	50.82
CC187B-15	RG187 Cable, BNC Male / Male, 15.0 ft	75.50	72.48	69.46	66.44	63.42

RG187A/U - 75 Ohm Coaxial Cable Hi-Temperature with Two Inline Type F Plugs

CC187F-1	RG187 Cable, Type F Male / Male, 1.0 ft	28.50	27.36	26.22	25.08	23.94
CC187F-1.5	RG187 Cable, Type F Male / Male, 1.5 ft	30.00	28.80	27.60	26.40	25.20
CC187F-2	RG187 Cable, Type F Male / Male, 2.0 ft	31.50	30.24	28.98	27.72	26.46
CC187F-2.5	RG187 Cable, Type F Male / Male, 2.5 ft	33.00	31.68	30.36	29.04	27.72
CC187F-5	RG187 Cable, Type F Male / Male, 5.0 ft	40.50	38.88	37.26	35.64	34.02
CC187F-7.5	RG187 Cable, Type F Male / Male, 7.5 ft	48.00	46.08	44.16	42.24	40.32
CC187F-10	RG187 Cable, Type F Male / Male, 10.0 ft	55.50	53.28	51.06	48.84	46.62
CC187F-15	RG187 Cable, Type F Male / Male, 15.0 ft	70.50	67.68	64.86	62.04	59.22


Tip
When do you use plenum cable?

In building construction, the space used for air circulation (heating and air conditioning) is called the plenum. This space is also commonly used to route communications cable. This poses a serious hazard in the event of fire due to lack of barriers to contain the smoke and flames. This is why various fire codes and the National Electrical Code (NEC) require the use of fire resistant and low smoke producing cable in these areas. This type of cable is called plenum cable and is coated with a fire retardant coating to produce a cable that is fire resistant and has low smoke producing characteristics.

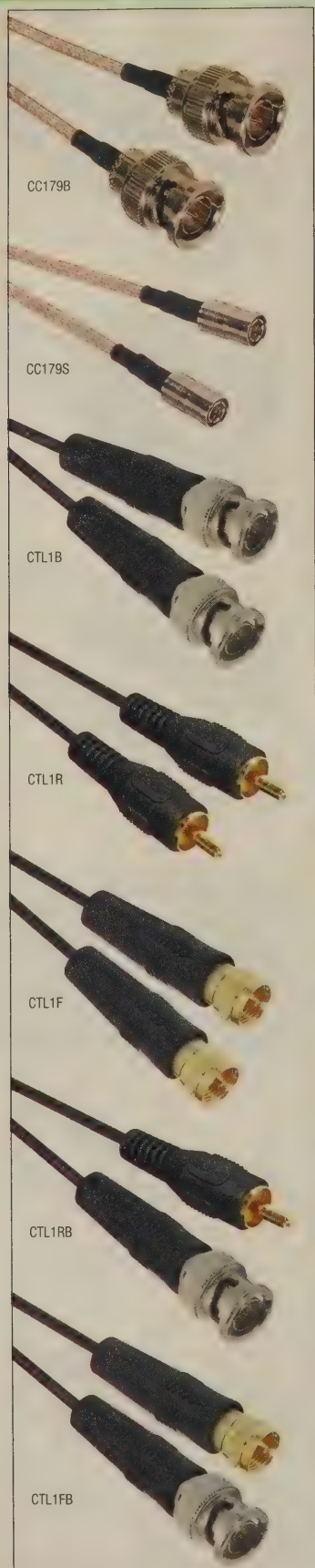
Did you know...

L-com, unlike many competitors, offers one of the largest in stock selections of coaxial cable assemblies available anywhere today?



"I have used L-com on several orders. I am in Iraq supporting the US troops with their information and communications needs. L-com has been great to work with and has been terrific about processing these orders to help our troops. Thank you." - Charlie Jones, IT Outsourcing, LLC

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Item #	Description	1-9	10-24	25-99	100-249	250-499
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RG179B/U - High Temperature Cable with Inline BNC and SMB Plugs

This 75 Ohm cable features a Brown tinted FEP outer jacket and an operating temperature of 200°C. Offered with both BNC and SMB plugs in eight convenient lengths. Other lengths and connector combinations available with modest minimums.

RG179B/U		- Center Conductor: 30 AWG (7 x 38) stranded silver plated copper covered steel - Shielding: Silver coated copper braid (95% coverage) - Insulation: TFE teflon - Jacket: Brown FEP - Operating Temperature: -70°C - +200°C	NOMINAL ATTENUATION		
			MHz	db/100 ft	db/100m
			50	8.5	27.9
			100	10.0	32.8
			200	12.5	41.0
			400	16.0	52.5
			1000	24.0	78.7

RoHS RG179B/U - 75 Ohm High Temperature Cable with Two Inline BNC Plugs

		1-9	10-24	25-99	100-249	250-499
CC179B-1	RG179 Cable, BNC Male / Male, 1.0 ft	21.00	20.16	19.32	18.48	17.64
CC179B-1.5	RG179 Cable, BNC Male / Male, 1.5 ft	21.75	20.88	20.01	19.14	18.27
CC179B-2	RG179 Cable, BNC Male / Male, 2.0 ft	22.50	21.60	20.70	19.80	18.90
CC179B-2.5	RG179 Cable, BNC Male / Male, 2.5 ft	23.25	22.32	21.39	20.46	19.53
CC179B-5	RG179 Cable, BNC Male / Male, 5.0 ft	27.00	25.92	24.84	23.76	22.68
CC179B-7.5	RG179 Cable, BNC Male / Male, 7.5 ft	30.75	29.52	28.29	27.06	25.83
CC179B-10	RG179 Cable, BNC Male / Male, 10.0 ft	34.50	33.12	31.74	30.36	28.98
CC179B-15	RG179 Cable, BNC Male / Male, 15.0 ft	42.00	40.32	38.64	36.96	35.28

RoHS RG179B/U - 75 Ohm High Temperature Cable with Two Inline SMB Plugs

		1-9	10-24	25-99	100-249	250-499
CC179S-1	RG179 Cable, SMB Male / Male, 1.0 ft	36.00	34.56	33.12	31.68	30.24
CC179S-1.5	RG179 Cable, SMB Male / Male, 1.5 ft	36.75	35.28	33.81	32.34	30.87
CC179S-2	RG179 Cable, SMB Male / Male, 2.0 ft	37.50	36.00	34.50	33.00	31.50
CC179S-2.5	RG179 Cable, SMB Male / Male, 2.5 ft	38.25	36.72	35.19	33.66	32.13
CC179S-5	RG179 Cable, SMB Male / Male, 5.0 ft	42.00	40.32	38.64	36.96	35.28
CC179S-7.5	RG179 Cable, SMB Male / Male, 7.5 ft	45.75	43.92	42.09	40.26	38.43
CC179S-10	RG179 Cable, SMB Male / Male, 10.0 ft	49.50	47.52	45.54	43.56	41.58
CC179S-15	RG179 Cable, SMB Male / Male, 15.0 ft	57.00	54.72	52.44	50.16	47.88

Thinline 75 Ohm (.11" Dia.) Coaxial Cable Assemblies

Substitute our smaller diameter, more flexible, lighter weight thinline cable assemblies for your traditional 75 Ohm cable assemblies. This coaxial cable features a spiral tinned copper shield and a proprietary air foamed dielectric. This 75 Ohm cable is less than half the size of RG59 and RG6 cable assemblies. Available in BNC, RCA and Type F connectors all with fully molded strain relief.

Thinline		- Center Conductor: 28 AWG (7 x 38) stranded tinned copper wire - Shielding: Tinned copper spiral shield (95% coverage) - Insulation: Foamed polyethylene - Jacket: Black PVC - Operating Temperature: -40°C - +80°C	NOMINAL ATTENUATION		
			MHz	db/100 ft	db/100m
			5	1.4	4.6
			10	2.1	6.9
			30	3.8	12.5
			50	5.1	16.7
			100	7.6	24.9

RoHS Thinline - 75 Ohm Coaxial Cables with Two Inline BNC Plugs

		1-9	10-24	25-99	100-249	250-499
CTL1B-1	Thinline Cable, BNC Male / Male, 1.0 ft	7.00	6.72	6.44	6.16	5.88
CTL1B-2.5	Thinline Cable, BNC Male / Male, 2.5 ft	7.75	7.44	7.13	6.82	6.51
CTL1B-5	Thinline Cable, BNC Male / Male, 5.0 ft	9.00	8.64	8.28	7.92	7.56
CTL1B-7.5	Thinline Cable, BNC Male / Male, 7.5 ft	10.25	9.84	9.43	9.02	8.61
CTL1B-10	Thinline Cable, BNC Male / Male, 10.0 ft	11.50	11.04	10.58	10.12	9.66
CTL1B-15	Thinline Cable, BNC Male / Male, 15.0 ft	14.00	13.44	12.88	12.32	11.76
CTL1B-25	Thinline Cable, BNC Male / Male, 25.0 ft	19.00	18.24	17.48	16.72	15.96

RoHS Thinline - 75 Ohm Coaxial Cables with Two Inline RCA Plugs

		1-9	10-24	25-99	100-249	250-499
CTL1R-1	Thinline Cable, RCA Male / Male, 1.0 ft	5.50	5.28	5.06	4.84	4.62
CTL1R-5	Thinline Cable, RCA Male / Male, 5.0 ft	7.50	7.20	6.90	6.60	6.30
CTL1R-10	Thinline Cable, RCA Male / Male, 10.0 ft	10.00	9.60	9.20	8.80	8.40
CTL1R-15	Thinline Cable, RCA Male / Male, 15.0 ft	12.50	12.00	11.50	11.00	10.50
CTL1R-25	Thinline Cable, RCA Male / Male, 25.0 ft	17.50	16.80	16.10	15.40	14.70

RoHS Thinline - 75 Ohm Coaxial Cables with Two Inline Type F Plugs

		1-9	10-24	25-99	100-249	250-499
CTL1F-1	Thinline Cable, Type F Male / Male, 1.0 ft	5.50	5.28	5.06	4.84	4.62
CTL1F-5	Thinline Cable, Type F Male / Male, 5.0 ft	7.50	7.20	6.90	6.60	6.30
CTL1F-10	Thinline Cable, Type F Male / Male, 10.0 ft	10.00	9.60	9.20	8.80	8.40
CTL1F-15	Thinline Cable, Type F Male / Male, 15.0 ft	12.50	12.00	11.50	11.00	10.50
CTL1F-25	Thinline Cable, Type F Male / Male, 25.0 ft	17.50	16.80	16.10	15.40	14.70

RoHS Thinline - 75 Ohm Coaxial Cables with One Inline RCA to One Inline BNC Plug

		1-9	10-24	25-99	100-249	250-499
CTL1RB-1	Thinline Cable, RCA Male / BNC Male, 1.0 ft	5.50	5.28	5.06	4.84	4.62
CTL1RB-5	Thinline Cable, RCA Male / BNC Male, 5.0 ft	7.50	7.20	6.90	6.60	6.30
CTL1RB-10	Thinline Cable, RCA Male / BNC Male, 10.0 ft	10.00	9.60	9.20	8.80	8.40
CTL1RB-15	Thinline Cable, RCA Male / BNC Male, 15.0 ft	12.50	12.00	11.50	11.00	10.50
CTL1RB-25	Thinline Cable, RCA Male / BNC Male, 25.0 ft	17.50	16.80	16.10	15.40	14.70

RoHS Thinline - 75 Ohm Coaxial Cables with One Inline Type F to One Inline BNC Plug

		1-9	10-24	25-99	100-249	250-499
CTL1FB-1	Thinline Cable, Type F Male / BNC Male, 1.0 ft	6.50	6.24	5.98	5.72	5.46
CTL1FB-5	Thinline Cable, Type F Male / BNC Male, 5.0 ft	8.50	8.16	7.82	7.48	7.14
CTL1FB-10	Thinline Cable, Type F Male / BNC Male, 10.0 ft	11.00	10.56	10.12	9.68	9.24
CTL1FB-15	Thinline Cable, Type F Male / BNC Male, 15.0 ft	13.50	12.96	12.42	11.88	11.34
CTL1FB-25	Thinline Cable, Type F Male / BNC Male, 25.0 ft	18.50	17.76	17.02	16.28	15.54



Item #	Description	1-9	10-24	25-99	100-249	250-499
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Digital Video Cable Assemblies

L-com offers a series of finished cable assemblies having digital grade cable and connectors assembled to exacting specifications in our factory. Available with either C1505A or C1506A cable and BNC inline or 90 degree configurations.

C1505A Digital 75 Ohm Coaxial Cable with Two Inline Digital BNC Plugs

C1505A-B-5	C1505A Cable, BNC Male / Male, 5.0 ft	45.00	43.20	41.40	39.60	37.80
C1505A-B-10	C1505A Cable, BNC Male / Male, 10.0 ft	49.00	47.04	45.08	43.12	41.16
C1505A-B-15	C1505A Cable, BNC Male / Male, 15.0 ft	53.00	50.88	48.76	46.64	44.52
C1505A-B-25	C1505A Cable, BNC Male / Male, 25.0 ft	61.00	58.56	56.12	53.68	51.24

C1505A Digital 75 Ohm Coaxial Cable with Inline to 90° Digital BNC Plugs

C1505A-BR-5	C1505A Cable, BNC Male / 90° Male, 5.0 ft	60.00	57.60	55.20	52.80	50.40
C1505A-BR-10	C1505A Cable, BNC Male / 90° Male, 10.0 ft	64.00	61.44	58.88	56.32	53.76
C1505A-BR-15	C1505A Cable, BNC Male / 90° Male, 15.0 ft	68.00	65.28	62.56	59.84	57.12
C1505A-BR-25	C1505A Cable, BNC Male / 90° Male, 25.0 ft	76.00	72.96	69.92	66.88	63.84

C1506A Digital 75 Ohm Plenum Coaxial Cable with Two Inline Digital BNC Plugs

C1506A-B-5	C1506A Cable, BNC Male / Male, 5.0 ft	70.00	67.20	64.40	61.60	58.80
C1506A-B-10	C1506A Cable, BNC Male / Male, 10.0 ft	74.00	71.04	68.08	65.12	62.16
C1506A-B-15	C1506A Cable, BNC Male / Male, 15.0 ft	78.00	74.88	71.76	68.64	65.52
C1506A-B-25	C1506A Cable, BNC Male / Male, 25.0 ft	86.00	82.56	79.12	75.68	72.24

C1506A Digital 75 Ohm Plenum Coaxial Cable with Inline to 90° Digital BNC Plugs

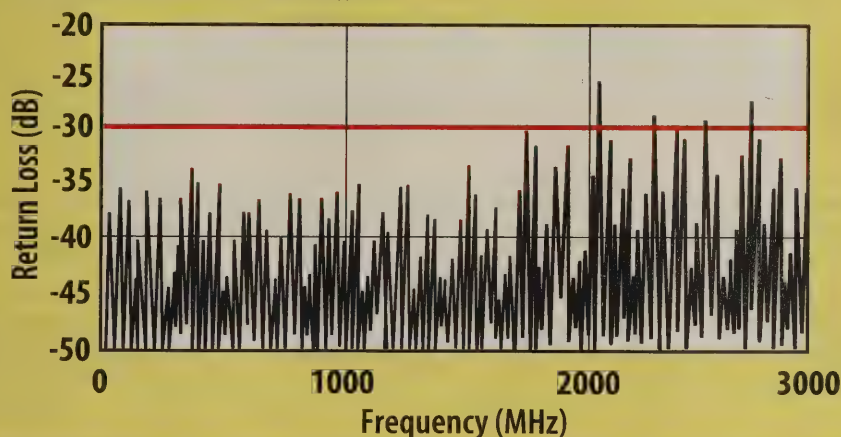
C1506A-BR-5	C1506A Cable, BNC Male / 90° Male, 5.0 ft	80.00	76.80	73.60	70.40	67.20
C1506A-BR-10	C1506A Cable, BNC Male / 90° Male, 10.0 ft	84.00	80.64	77.28	73.92	70.56
C1506A-BR-15	C1506A Cable, BNC Male / 90° Male, 15.0 ft	88.00	84.48	80.96	77.44	73.92
C1506A-BR-25	C1506A Cable, BNC Male / 90° Male, 25.0 ft	96.00	92.16	88.32	84.48	80.64


Tip

Digital and analog video cable

This return loss chart illustrates why digital video cable performance is vastly different than analog video cable. Analog video bandwidth at 6 MHz is quite narrow and low in frequency while digital video bandwidth depending on data rate can be as much as 750 MHz with a higher operating frequency. As the bandwidth and frequency increase so does the difficulty of limiting spikes above the -30dB range. Standard RG59 and RG6 type cable,

commonly used for analog video, does not have sufficient bandwidth for optimal performance in digital video applications and will limit lengths as well as degrade performance. C1505A and C1506A cable with associated BNC connectors are specifically designed for the more demanding digital video frequency and bandwidth.



RoHS Premium 3.5mm (1/8") 3 Conductor Cables for Microphones, Speakers and Other Applications

These low loss premium 3.5mm cable assemblies offer superior performance when compared to similar commercial counterparts. Connectors are gold plated reducing corrosion while maintaining reliable contact. 22 AWG conductors and a double shield provide minimum loss even at long lengths.

CTL35MM-3	Stereo Cable, 3.5mm Male / Male, 3.0 ft	5.00	4.80	4.60	4.40	4.20
CTL35MM-5	Stereo Cable, 3.5mm Male / Male, 5.0 ft	6.00	5.76	5.52	5.28	5.04
CTL35MM-10	Stereo Cable, 3.5mm Male / Male, 10.0 ft	8.50	8.16	7.82	7.48	7.14
CTL35MM-25	Stereo Cable, 3.5mm Male / Male, 25.0 ft	16.00	15.36	14.72	14.08	13.44
CTL35MM-50	Stereo Cable, 3.5mm Male / Male, 50.0 ft	28.50	27.36	26.22	25.08	23.94
CTL35MM-100	Stereo Cable, 3.5mm Male / Male, 100.0 ft	53.50	51.36	49.22	47.08	44.94
CTL35MF-3	Stereo Cable, 3.5mm Male / Female, 3.0 ft	5.00	4.80	4.60	4.40	4.20
CTL35MF-5	Stereo Cable, 3.5mm Male / Female, 5.0 ft	6.00	5.76	5.52	5.28	5.04
CTL35MF-10	Stereo Cable, 3.5mm Male / Female, 10.0 ft	8.50	8.16	7.82	7.48	7.14
CTL35MF-25	Stereo Cable, 3.5mm Male / Female, 25.0 ft	16.00	15.36	14.72	14.08	13.44
CTL35MF-50	Stereo Cable, 3.5mm Male / Female, 50.0 ft	28.50	27.36	26.22	25.08	23.94
CTL35MF-100	Stereo Cable, 3.5mm Male / Female, 100.0 ft	53.50	51.36	49.22	47.08	44.94



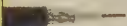
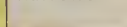
RoHS status information

listed on every product saves you time.
L-com.com/RoHS



**Tip****How do you select the right coaxial cable for your application?**

There are a number of commonly used coaxial cable sizes in use today. Most are "RG" style cables originally designed for military applications but now extensively used in commercial situations. The following coaxial cable selection guide is intended as a general guide to assist you in selecting the right cable for your particular application.

Cable Type	Impedance	Typical Application	Best feature	Trade Off
RG174/U 	50 Ohm	Transmission of data signals in applications such as LAN/WAN or GPS	Small diameter, flexible	Higher signal loss than larger diameter cable such as RG58
RG188A/U 	50 Ohm	Transmission of data signals in applications such as LAN/WAN or GPS in situations where high temperature performance is needed	Small diameter, flexible. High temperature rating of taped TFE outer jacket	Higher signal loss than larger diameter cable such as RG58 and higher cost than standard RG174
RG316/U 	50 Ohm	Transmission of data signals in applications such as LAN/WAN or GPS in situations where high temperature performance is needed	Small diameter, flexible. High temperature rating of extruded FEP outer jacket	Higher signal loss than larger diameter cable such as RG58 and higher cost than standard RG174
RG58C/U 	50 Ohm	Transmission of data signals in applications such as antenna feed cables or Ethernet backbones	Lower signal loss than smaller diameter cable such as RG174	Less flexible than smaller diameter cable such as RG174
RG142B/U 	50 Ohm	Transmission of data signals in applications such as antenna feed cables or Ethernet backbones in situations where high temperature performance is needed	Lower signal loss than smaller diameter cable such as RG174. High temperature rating of extruded FEP jacket	Less flexible than smaller diameter cable such as RG174 and higher cost than RG58C cable.
RG59A/U 	75 Ohm	Transmission of a video or audio signal in applications such as security systems or CATV	Lower signal loss than smaller diameter cable such as RG179. Flexibility of stranded center conductor cable	Higher signal loss than solid center conductor RG59B/U cable
RG59B/U 	75 Ohm	Transmission of a video or audio signal in applications such as security systems or CATV	Lower signal loss than smaller diameter cable such as RG179 and RG59A/U stranded center conductor cable	Less flexible than smaller diameter cable such as RG179 or stranded center conductor RG59A/U
RG6/U 	75 Ohm	Transmission of a video or audio signal in applications such as security systems or CATV	Lower signal loss than smaller diameter cable such as RG179 and both RG59A/U or RG59B/U cable	Less flexible than smaller diameter cable such as RG179 and both RG59A/U or RG59B/U
RG223/U 	50 Ohm	Transmission of data signals in applications such as LAN/WAN or GPS in situations where low signal loss and high shielding performance is needed	Lower signal loss and better shielding than smaller diameter cable such as RG174 or RG58C/U cables	Less flexible than smaller diameter cable such as RG174 and higher cost than single shielded RG58C cable
RG213/U 	50 Ohm	Transmission of data signals in applications such as antenna feed cables in situations where low signal loss and high operating voltage performance is needed	Lower signal loss and higher operating voltage than RG58C/U cable	Larger diameter and less flexible than RG58C/U cable
RG179B/U 	75 Ohm	Transmission of a video signal in applications such as security systems where high temperature performance is needed	Small diameter, flexible. High temperature rating of extruded FEP outer jacket	Higher signal loss and cost than larger diameter cable such as RG59
RG187A/U 	75 Ohm	Transmission of a video signal in applications such as security systems where high temperature performance is needed	Small diameter, flexible. High temperature rating of TFE taped outer jacket	Higher signal loss and cost than larger diameter cable such as RG59

Note: Images on this page are for reference only and may not be to scale



**Tip**

How do you select the right coaxial cable interface for your application?

There are numerous coaxial interfaces in use today. These interfaces cover a broad range of applications including both 50 Ohm data signal transmission and 75 Ohm audio/video signal transmission. The following chart is a general guide to help you select the best interface for your specific application.

Interface Type	Impedance	Application	Coupling Mechanism	Typical Cable Types	Typical Frequency Range
BNC 	Available in both 50 and 75 Ohm	50 Ohm version is utilized in data signal transmission for such applications as WAN/LAN, Ethernet or Test & Measurement. 75 Ohm version is utilized in audio/video signal transmission for such applications as security and CATV	Two stud bayonet twist and lock	Wide variety of RG style coaxial cables including 50 Ohm RG174, RG58, RG142 etc. And 75 Ohm RG179, RG59, RG6	0-4 GHz
TNC (Threaded version of a BNC) 	50 Ohm	Data signal transmission for such applications as GPS, wireless base stations antennas and instrumentation	Threaded coupling	Wide variety of RG style coaxial cables including RG174, RG58, RG142, etc	0-11 GHz
SMA 	50 Ohm	Data signal transmission for such applications as GPS and instrumentation	Threaded coupling	Generally used on small diameter cable such as RG174, RG188 and RG316	0-18 GHz
Type N 	50 Ohm	Data signal transmission for such applications as GPS antennas and instrumentation	Threaded coupling	Generally used on larger diameter cable such as RG58, RG213 and RG223	0-11 GHz
Type F 	75 Ohm	Video signal transmission in applications such as CATV and entertainment video	Threaded coupling	Primarily RG59 and RG6	0-1 GHz
MCX 	50 Ohm	Data signal transmission for such applications as GPS antennas and instrumentation	Snap on coupling	Generally used on small diameter cable such as RG174, RG188 and RG316	0-6 GHz
MMCX 	50 Ohm	Data signal transmission for such applications as GPS antennas and PCMCIA cards	Snap on coupling	Generally used on small diameter cable such as RG174, RG188 and RG316	0-6 GHz
SMB 	Available in both 50 and 75 Ohm	Data signal transmission for such applications as digital cellular, GPS and wireless LAN	Snap on coupling	Generally used on small diameter cable such as 50 Ohm RG174, RG188 and RG316 and 75 Ohm RG179 and RG187	0-4 GHz
SMC 	Available in both 50 and 75 Ohm	Signal transmission for such applications as automotive GPS and telecom with high vibration requirements	Threaded coupling	Generally used on small diameter cable such as 50 Ohm RG174, RG188 and RG316 and 75 Ohm RG179 and RG187	0-10 GHz
Reverse Polarity TNC and SMA 	50 Ohm	Signal transmission in wireless spread spectrum devices that must comply with FCC non standard interface rule	Threaded coupling and RG58	Primarily used with RG174	TNC 0-11 GHz SMA 0-18 GHz

Note: Images on this page are for reference only and may not be to scale



For more useful information go to....

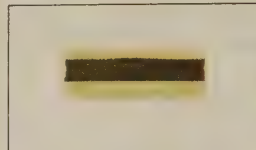
www.L-com.com/Resources

L-com Global Connectivity

Anatomy of a Coaxial Connector

There are a wide variety of coaxial connectors available today. These connectors are offered in numerous interface types and attachment methods. Illustrated below are some common elements and functions shared by most of these coaxial connectors.

Crimp Ring



Attachment sleeve to cable outer conductor.

Coupling Body



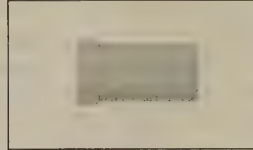
Attachment mechanism to mating connector.

Outer Conductor



Outer conducting element for signal transmission.

Dielectric Support



Non-conductive spacer between center and outer conductor.

Center Conductor



Center conducting element for signal transmission.

Building Your Own Coaxial Cable Assembly

In order to successfully build your own coaxial cable assembly, you must make the following decisions:

1. Select a cable type

Many parameters come into play in making this decision from electrical performance properties such as impedance, shielding and attenuation to mechanical properties such as diameter, center conductor construction (solid vs stranded) and jacket material. A selection of the most commonly used cable is listed on [page 147](#).

2. Select a connector type

Numerous connector interfaces exist such as BNC, TNC, SMA, F or RCA

to name just a few. Each has a different application and come in both male and female versions. A selection of the most popular types is listed on [pages 148-150](#) and [158-159](#).

3. Select an attachment method

In general, there are three basic methods to attach a coaxial connector to a coaxial cable. They are crimp, clamp and twist-on. Each of these methods is illustrated below.

4. Select a tool

If a crimp attachment method was selected then a crimp tool will be needed. The crimp cross reference chart on [page 151](#) will assist you in selecting the correct tool.

Crimp Method: This is the most common connector attachment method. In this case the cable shield is crimped to the connector using the crimp ring. The connector center conductor is attached to the cable center conductor by crimp or solder.

STEP 1



Cut cable to length and slide crimp ring onto free end.

STEP 2



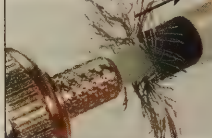
Strip free end with Coaxial Cable Stripper.

STEP 3



Slide pin onto center conductor making sure base of pin meets dielectric. Crimp in place.

STEP 4



Fan braid and slide plug over pin.

STEP 5



Pull crimp sleeve over braid and ring.

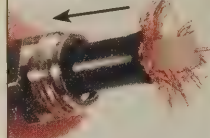
STEP 6



Crimp in place.

Clamp Method: The clamp method is often used for weather exposure applications or when crimp tools are not available. In this case the cable shield is clamped between the connector body and back nut. The connector center conductor is usually soldered to the cable center conductor.

STEP 1



Cut cable and slide nut into position. Strip and flair braid.

STEP 2



Position braid clamp and crimp or solder pin.

STEP 3



Attach main body to back nut.

Twist-On Method: This method is most often used in field applications because of its simplicity and the need for no special tools.

STEP 1



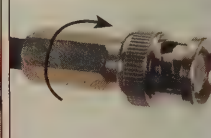
Prepare cable with strip tool.

STEP 2



Position connector body.

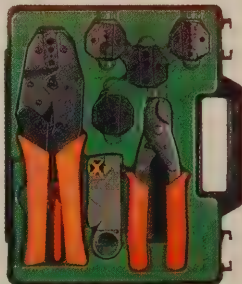
STEP 3



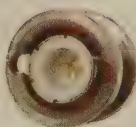
Twist connector body onto cable.

Crimp Tool:

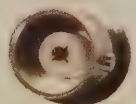
When using a crimp connector, the HT330K tool kit can be a valuable item ([page 151](#)). This kit contains dies for all the commonly used crimp sizes. In addition, this kit comes complete with a cable cutter and a rotary cable stripper - helpful tools for building a cable assembly.



Plug or Jack:



A PLUG utilizes a center pin = MALE GENDER



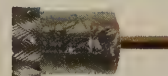
A JACK utilizes a center socket = FEMALE GENDER



See The Video

www.L-com.com/Videos/A19

Solid or Stranded:



SOLID center conductor: best attenuation but somewhat stiff.



STRANDED center conductor: more flexible but slightly higher attenuation.

RG174/U • Center Conductor: 26 (7x34) AWG bare copper covered steel • Shielding: Tinned copper braid (90% coverage) • Insulation: Polyethylene • Jacket: Black PVC • Operating Temperature: -40°C - +75°C	NOMINAL ATTENUATION			 RoHS Item #	Description	List
	MHz	db/100 ft	db/100m			
	100	8.4	27.6			
	200	12.5	41.0			
	400	19.0	62.3			
	1000	34.0	111.5			
			RG174-100	RG174/U, 100 ft coil	25.50	
				RG174-500	RG174/U, 500 ft spool	115.50
				RG174-1K	RG174/U, 1,000 ft spool	225.50

RG188A/U	NOMINAL ATTENUATION			Item #	Description	List
	MHz	db/100 ft	db/100m			
	100	8.3	27.2			
	200	12.0	39.4			
	400	17.5	57.4			
	1000	29.0	95.1			
• Center Conductor: 26 (7x34) AWG silver coated copper covered steel • Shielding: Silver coated copper braid (96% shield coverage) • Insulation: TFE Teflon • Jacket: White TFE taped • Operating Temperature: -70°C - +200°C VW-1 vertical flame test compliant						
				RG188A-100	RG188A/U, 100 ft coil	85.00
				RG188A-500	RG188A/U, 500 ft spool	395.00
				RG188A-1K	RG188A/U, 1,000 ft spool	700.00
Note: Spools may contain more than one piece.						

Note: Spools may contain more than one piece.

RG58C/U • Center Conductor: 20 (19x32) AWG tinned copper • Shielding: Tinned copper braid (95% coverage) • Insulation: Polyethylene • Jacket: Black PVC • Operating Temperature: -40°C - +85°C	NOMINAL ATTENUATION			 RoHS Item #	Description	List
	MHz	db/100 ft	db/100m			
	100	4.9	16.1			
	200	7.3	23.9			
	400	11.0	36.1			
	1000	20.0	65.6			
			RG58C-100	RG58C/U, 100 ft coil	25.50	
			RG58C-500	RG58C/U, 500 ft spool	115.50	
			RG58C-1K	RG58C/U, 1,000 ft spool	225.50	

RG142B/U	NOMINAL ATTENUATION			✓RoHS Item #	Description	List
	MHz	db/100 ft	db/100m			
	100	3.9	12.8			
	200	5.6	18.4			
	400	8.2	26.9			
	1000	13.5	44.3			
• Center Conductor: 18 AWG solid silver coated copper • Shielding: 2 silver coated copper braids (96% coverage) • Insulation: TFE Teflon • Jacket: Brown FEP • Operating Temperature: -70°C - +200°C VW-1 vertical flame test compliant				RG142B-100	RG142B/U, 100 ft coil	165.00
				RG142B-500	RG142B/U, 500 ft spool	800.00
				RG142B-1K	RG142B/U, 1,000 ft spool	1575.00
				Note: Spools may contain more than one piece.		

Note: Spools may contain more than one piece.

RG59A/U • Center Conductor: 22 (7x30) AWG bare copper • Shielding: Bare copper braid (95% coverage) • Insulation: Foam polyethylene • Jacket: Black PVC • Operating Temperature: -40°C - +80°C	NOMINAL ATTENUATION			 RoHS Item #	Description	List
	MHz	db/100 ft	db/100m			
	100	3.0	9.8			
	200	4.5	14.8			
	400	6.6	21.7			
	1000	10.9	35.8			
			RG59A-100	RG59A/U, 100 ft coil	25.50	
			RG59A-500	RG59A/U, 500 ft spool	115.50	
			RG59A-1K	RG59A/U, 1,000 ft spool	225.50	

RG59B/U • Center Conductor: 22 AWG solid bare copper covered steel • Shielding: Bare copper braid (95% coverage) • Insulation: Polyethylene • Jacket: Black PVC • Operating Temperature: -40°C - +80°C	NOMINAL ATTENUATION			 RoHS Item #	Description	List
	MHz	db/100 ft	db/100m			
	100	3.4	11.1			
	200	4.9	16.1			
	400	7.0	23.0			
	1000	12.0	39.3			
			RG59B-100	RG59B/U, 100 ft coil	25.50	
			RG59B-500	RG59B/U, 500 ft spool	115.50	
			RG59B-1K	RG59B/U, 1,000 ft spool	225.50	

RG6/U	NOMINAL ATTENUATION			 RoHS Item #	Description	List
	MHz	db/100 ft	db/100m			
	100	2.1	6.9			
	200	3.1	10.2			
	400	4.5	14.8			
	1000	7.3	23.9			
- Center Conductor: 18 AWG solid bare copper covered steel - Shielding: Inner foil (100% coverage); Outer, copper braid (60% coverage) - Insulation: Foam Polyethylene - Jacket: Black PVC - Operating Temperature: -40°C - +80°C						
				RG6-100	RG6/U, 100 ft coil	60.00
				RG6-500	RG6/U, 500 ft spool	275.00
				RG6-1K	RG6/U, 1,000 ft spool	525.00

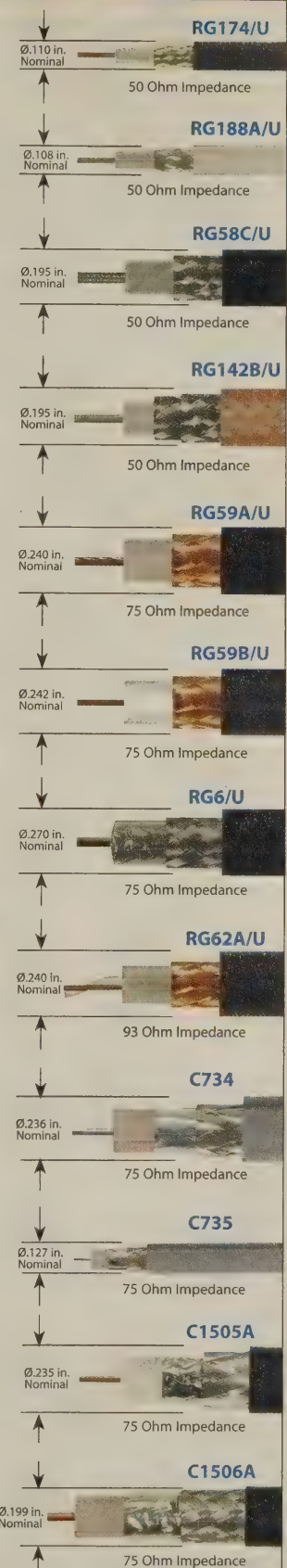
RG62A/U • Center Conductor: 22 AWG solid bare copper covered steel • Shielding: Bare copper braid (95% coverage) • Insulation: Semi-solid polyethylene • Jacket: Black PVC • Operating Temperature: -40°C - +80°C	NOMINAL ATTENUATION			Item #	Description	List
	MHz	db/100 ft	db/100m			
	100	2.7	8.9			
	200	3.8	12.5			
	400	5.3	17.4			
	1000	8.7	28.5			
			RG62A-100	RG62A/U, 100 ft coil	19.95	
			RG62A-500	RG62A/U, 500 ft spool	84.95	
			RG62A-1K	RG62A/U, 1,000 ft spool	169.00	

734 Type D53-4 • Center Conductor: 20 AWG silver plated solid copper • Shielding: Inner AL foil 100% + outer braid • Insulation: Foamed polyethylene • Jacketing: Polyvinyl chloride (PVC) • Operating Temperature: -40°C - +75°C	NOMINAL ATTENUATION			Item #	Description	List
	MHz	db/100 ft	db/100m			
	5	.55	1.8	C734-100	C734, 100 ft coil	53.00
	10	.77	2.5	C734-500	C734, 500 ft spool	240.00
	50	1.74	5.7	C734-1K	C734, 1,000 ft spool	430.00
	100	2.49	8.2			

735 Type D53-4 • Center Conductor: 26 AWG silver plated solid copper • Shielding: Inner AL foil 100% + outer braid • Insulation: Foamed polyethylene • Jacketing: Polyvinyl chloride (PVC) • Operating Temperature: -40°C - +75°C	NOMINAL ATTENUATION			Item #	Description	List
	MHz	db/100 ft	db/100m			
	5	1.10	3.6	C735-100	C735, 100 ft coil	44.00
	10	1.53	5.0	C735-500	C735, 500 ft spool	195.00
	50	3.47	11.4	C735-1K	C735, 1,000 ft spool	360.00
	100	4.95	16.2			

1505 Type • Center Conductor: 20 AWG solid bare copper • Shielding: Inner foil + 95% tinned copper braid • Insulation: Gas injected polyethylene • Jacketing: Polyvinyl chloride (PVC) • Operating Temperature: -40°C - +75°C	NOMINAL ATTENUATION			Item #	Description	List
	MHz	db/100 ft	db/100m			
	10	.87	2.9	C1505A-100	C1505A 100 ft coil	51.00
	360	4.4	14.5	C1505A-500	C1505A 500 ft spool	230.00
	720	6.5	21.3	C1505A-1K	C1505A 1,000 ft spool	420.00
	1000	7.8	25.6			

1506 Type • Center Conductor: 20 AWG solid bare copper • Shielding: Inner foil + 95% tinned copper braid • Insulation: Foam FEP • Jacketing: Flammarrest® • Operating Temperature: -40°C - +75°C	NOMINAL ATTENUATION			Item #	Description	List
	MHz	db/100 ft	db/100m			
	10	1.0	3.3	C1506A-100	C1506A 100 ft coil	153.00
	360	5.2	17.1	C1506A-500	C1506A 500 ft spool	690.00
	720	7.3	23.9	C1506A-1K	C1506A 1,000 ft spool	1250.00
	1000	9.4	30.8			



Lengths may vary ±10% from lengths shown.

Reseller pricing
Your organization may be entitled to discounted pricing. L-com.com/Reseller

Coaxial Connector Selection Matrix

Use this handy chart to locate the desired coaxial connector. Simply locate the connector type and gender in the top row. Then find the coaxial cable type in the left hand column. Intersect the row and column to determine availability. Connectors shown in this matrix are listed on **pages 148 thru 150**.

If a specific connector type is not listed, please visit our website at www.L-com.com for the latest information or call our technical support group at 800-343-1455 for assistance. Connectors listed are generally intended for use in the RF band. Assembly tools can be found on **pages 151 and 152**.

	PLUG TYPES									JACK TYPES						
CABLE TYPE	BNC	TNC	SMA	TYPE N	TWIN BNC	MCX	MMCX	TYPE F	RCA	BNC	TNC	SMA	TYPE N	RCA	TYPE F	MCX
RG58 (50 Ohm)	BAC836A-58 BAC10A BIF-83 BAC838-58	BAC898-58 BAC500 BAC525	BAC03 BAC03-G BAC02 BAC02-G	BAC519						BAC515 BAC522	BAC513 BAC501 BAC518	BAC05 BAC04	BAC524			
RG58 (50 Ohm) Plenum RG174/188/316 (50 Ohm)	BAC836A-58P BAC836B-74		BAC03A BAC03A-G BAC02A BAC02A-G BAC502	BAC523		BAC507 BAC508	BAC509 BAC510 BAC511			BAC517	BAC514 BAC528	BAC05A BAC06A BAC503 BAC512	BAC527			BAC526
RG59/62 (75 Ohm)	BAC027, BAC027A BAC030, BAC836A-59 BAC033, BAC024 BAC706, BAC985	BAC933-59 BAC893-59 BAC709 BAC986						BAC-CF559U BAC530 BAC-EX59	BAC700-59	BAC908-59 BAC014	BAC901-59 BAC934-59				BAC520	
RG59 (75 Ohm) Plenum	BAC028, BAC031, BAC034									BAC013 BAC015						
RG6 (75 Ohm)	BAC026, BAC029 BAC032							BAC-CF56U BAC529 BAC-EX6	BAC700-6	BAC516						
RG6Q (75 Ohm)	BAC042															
RG179/187/CTL (75 Ohm)	BAC836B-87															
1505A (75 Ohm)	BAC-UPL2000-D2B															
1506A (75 Ohm)	BAC-UPL2000-D8B															
734 (75 Ohm)	BAC-UPL220-025															
735 (75 Ohm)	BAC-UPL220-026															
RG213 (50 Ohm)		BAC504		BAN111 BAC506												
TWINAXIAL					BAC928											
LMR200			HPC201, HPC202													
LMR400			HPC401, HPC402	HPC404 HPC994								HPC403	HPC405			
BELDEN 9913	HPC992	HPC993														
BELDEN 7807	HPC782	HPC783	HPC781													
PANEL MOUNT	BAC1501				BAC930					BAC260 BAC1503 BAC70A		BAC16	BAN113	BAC440		



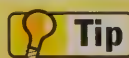
Item # Description Cable Attachment 1-9 10-24 25-99 100-249 250-499

Coaxial Connectors - Large Selection of Interfaces and Attachment Methods

Coaxial connectors found in this section are for applications when you wish to build your own cable assemblies. When used in conjunction with L-com's bulk cable, (page 147) and appropriate assembly tooling (pages 137 and 147) you are assured of producing a quality cable assembly. All connectors are individually packaged for ease of handling. Many interface types are offered in crimp, clamp and twist on attachment styles.

RoHS BNC Coaxial Connectors - Bayonet Style Coupling 75 Ohm Interface

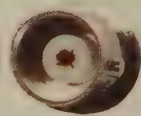
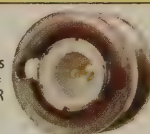
BAC024	BNC Plug	RG59	Twist On	3.25	3.06	2.86	2.67	2.47
BAC026	BNC Plug	RG6	Twist On	3.25	3.06	2.86	2.67	2.47
BAC027	BNC Plug	RG59 (23 AWG C.C.)	Crimp	3.25	3.06	2.86	2.67	2.47
BAC027A	BNC Plug	RG59 (20 AWG C.C.)	Crimp	3.25	3.06	2.86	2.67	2.47
BAC028	BNC Plug	RG59 Plenum	Crimp (3 Pc)	3.25	3.06	2.86	2.67	2.47
BAC029	BNC Plug	RG6	Crimp (3 Pc)	3.25	3.06	2.86	2.67	2.47
BAC030	BNC Plug	RG59	Crimp (2 Pc)	3.25	3.06	2.86	2.67	2.47
BAC031	BNC Plug	RG59 Plenum	Crimp (2 Pc)	3.25	3.06	2.86	2.67	2.47
BAC032	BNC Plug	RG6	Crimp (2 Pc)	3.25	3.06	2.86	2.67	2.47
BAC033	BNC Plug	RG59	Solder	4.25	3.99	3.74	3.49	3.23
BAC034	BNC Plug	RG59 Plenum	Solder	5.75	5.40	5.06	4.72	4.37
BAC706	BNC Plug, Right Angle	RG59/62	Crimp	5.75	5.40	5.06	4.72	4.37
BAC985	BNC Plug, Right Angle	RG59/62	Twist On	5.75	5.40	5.06	4.72	4.37
BAC836A-59	BNC Plug	RG59/62	Crimp	2.75	2.59	2.42	2.26	2.09
BAC836B-87	BNC Plug	RG187/CTL	Crimp	2.75	2.59	2.42	2.26	2.09
BAC042	BNC Plug	RG6-Q	Crimp	2.25	2.11	1.98	1.85	1.71
BAC908-59	BNC Jack	RG59/62	Crimp	3.95	3.71	3.48	3.24	3.00
BAC013	BNC Jack	RG59 Plenum	Crimp	3.95	3.71	3.48	3.24	3.00
BAC014	BNC Jack	RG59	Twist On	3.95	3.71	3.48	3.24	3.00
BAC015	BNC Jack	RG59 Plenum	Twist On	3.95	3.71	3.48	3.24	3.00
BAC516	BNC Jack	RG6	Crimp	3.95	3.71	3.48	3.24	3.00



What is the difference between a plug and a jack?

People often have difficulty choosing the correct gender termination on cable assemblies. Plugs are considered male gendered connectors which utilize a center pin. Jacks are considered female gendered connectors utilizing a center socket.

A PLUG utilizes a center pin = MALE GENDER



A JACK utilizes a center socket = FEMALE GENDER

Item #	Description	Cable	Attachment	1-9	10-24	25-99	100-249	250-499
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BNC Coaxial Connectors

This popular coaxial connector features a twist and couple mating mechanism. Offered in both 50 and 75 Ohm versions for a wide range of commonly used RG style cables. Attachment options of crimp, clamp or twist on are available for many connector styles.

RoHS BNC Coaxial Connectors - Bayonet Style Coupling, 50 Ohm Interface

BAC836A-58	BNC Plug	RG58	Crimp	2.75	2.59	2.42	2.26	2.09
BAC836A-58P	BNC Plug	RG58 Plenum	Crimp	3.50	3.29	3.08	2.87	2.66
BAC838-58	BNC Plug	RG58	Twist On	4.25	3.99	3.74	3.49	3.23
BIF-83	BNC Plug, Insulated	RG58	Crimp	4.25	3.99	3.74	3.49	3.23
BAC10A	BNC Plug	RG58	Clamp	4.25	3.99	3.74	3.49	3.23
BAC836B-74	BNC Plug	RG174/188/316	Crimp	4.75	4.47	4.18	3.89	3.61
BAC515	BNC Jack	RG58	Crimp	4.25	3.99	3.74	3.49	3.23
BAC517	BNC Jack	RG174/188/316	Crimp	4.25	3.99	3.74	3.49	3.23
BAC522	BNC Jack	RG58	Crimp	5.25	4.93	4.62	4.31	3.99

RoHS Digital Grade BNC Connectors for 1505A and 1506A 75 Ohm Cable

BAC-UPL2000-D2B	BNC Plug	1505A Coax	Crimp	8.50	8.16	7.82	7.48	7.14
BAC-UPL2000-D8B	BNC Plug	1506A Plenum Coax	Crimp	8.50	8.16	7.82	7.48	7.14

RoHS Telecommunications Grade 75 Ohm BNC Connectors for 734 and 735 Coaxial Cable

BAC-UPL220-025	BNC Plug	734 Coax	Crimp	10.50	10.08	9.66	9.24	8.82
BAC-UPL220-026	BNC Plug	735 Coax	Crimp	10.50	10.08	9.66	9.24	8.82

RoHS SMA Coaxial Connectors - Threaded Style Coupling, 50 Ohm Interface

This subminiature connector is used primarily in higher frequency applications and where connector density is an issue. Offered in both male and female genders as well as a right angle orientation. A crimp style attachment is used for this series.

BAC03	SMA Plug, Nickel	RG58	Crimp	4.25	3.99	3.74	3.49	3.23
BAC03-G	SMA Plug, Gold	RG58	Crimp	4.25	3.99	3.74	3.49	3.23
BAC02	SMA Plug, Right Angle Nickel	RG58	Crimp	4.25	3.99	3.74	3.49	3.23
BAC02-G	SMA Plug, Right Angle Gold	RG58	Crimp	4.25	3.99	3.74	3.49	3.23
BAC03A	SMA Plug, Nickel	RG174/188/316	Crimp	4.25	3.99	3.74	3.49	3.23
BAC03A-G	SMA Plug, Gold	RG174/188/316	Crimp	4.25	3.99	3.74	3.49	3.23
BAC02A	SMA Plug, Right Angle Nickel	RG174/188/316	Crimp	4.25	3.99	3.74	3.49	3.23
BAC02A-G	SMA Plug, Right Angle Gold	RG174/188/316	Crimp	3.95	3.63	3.32	3.00	2.69
BAC05	SMA Jack, Nickel	RG58	Crimp	5.25	4.93	4.62	4.31	3.99
BAC04	SMA Jack, Bulkhead Nickel	RG58	Crimp	5.25	4.93	4.62	4.31	3.99
BAC06A	SMA Jack, Bulkhead Gold	RG174/188/316	Crimp	5.25	4.93	4.62	4.31	3.99
BAC05A	SMA Jack, Nickel	RG174/188/316	Crimp	5.25	4.93	4.62	4.31	3.99

RoHS TNC Coaxial Connector - Threaded Style Coupling, 50 Ohm Interface

This widely used coaxial connector utilizes a threaded coupling mechanism for secure mating. Offered for a wide range of popular RG style cables. Attachment options of crimp and twist on are available for many connector styles.

BAC893-58	TNC Plug	RG58	Crimp	2.50	2.35	2.20	2.05	1.90
BAC893-59	TNC Plug	RG59	Crimp	2.50	2.35	2.20	2.05	1.90
BAC933-59	TNC Plug	RG59	Twist On	3.25	3.06	2.86	2.67	2.47
BAC504	TNC Plug	RG213	Crimp	2.50	2.35	2.20	2.05	1.90
BAC525	TNC Plug, Right Angle	RG58	Crimp	7.50	7.05	6.60	6.15	5.70
BAC709	TNC Plug, Right Angle	RG59	Crimp	4.75	4.47	4.18	3.89	3.61
BAC986	TNC Plug, Right Angle	RG59	Twist On	4.75	4.47	4.18	3.89	3.61
BAC934-59	TNC Jack	RG59	Crimp	4.75	4.47	4.18	3.89	3.61
BAC901-59	TNC Jack	RG59	Twist On	4.75	4.47	4.18	3.89	3.61
BAC513	TNC Jack	RG58	Crimp	2.50	2.35	2.20	2.05	1.90
BAC518	TNC Jack	RG58	Crimp	5.50	5.17	4.84	4.51	4.18
BAC514	TNC Jack	RG174/188/316	Crimp	2.50	2.35	2.20	2.05	1.90
BAC528	TNC Jack	RG174/188/316	Crimp	6.00	5.64	5.28	4.92	4.56

RoHS Type F Coaxial Connector - Threaded Style Coupling, 75 Ohm Interface

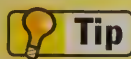
The Type F connector is widely used for connections of video signal lines in such applications as CATV and set top boxes.

BAC-CFS6U	Type F Plug, Indoor	RG6	Crimp	0.99	0.93	0.87	0.81	0.75
BAC-CFS59U	Type F Plug, Indoor	RG59	Crimp	0.99	0.93	0.87	0.81	0.75
BAC529	Type F Plug, Indoor/Outdoor	RG6	Crimp	1.25	1.17	1.10	1.02	0.95
BAC530	Type F Plug, Indoor/Outdoor	RG59	Crimp	1.25	1.17	1.10	1.02	0.95
BAC-EX6	Type F Plug	RG6	Compression	1.50	1.41	1.32	1.23	1.14
BAC-EX59	Type F Plug	RG59	Compression	1.50	1.41	1.32	1.23	1.14
BAC520	Type F Jack	RG59	Crimp	4.25	3.99	3.74	3.49	3.23

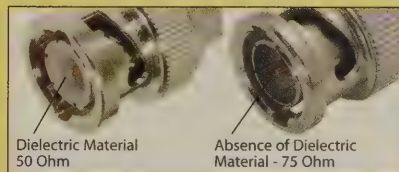
RoHS RCA Coaxial Connector - Push-On Coupling for 75 Ohm Coaxial Cable

The RCA connector is the most commonly used connector type found on consumer electronics for both composite and component video as well as audio in some cases.

BAC700-6	RCA Plug, Push-On	RG6	Crimp	0.99	0.93	0.87	0.81	0.75
BAC700-59	RCA Plug, Push-On	RG59	Crimp	0.99	0.93	0.87	0.81	0.75

**Distinguishing between 50 and 75 Ohm BNC connectors**

BNC connectors are one of the few coaxial connectors that are available in two impedance values of 50 and 75 Ohms. You can distinguish the two types by the absence of dielectric material at the interface of the 75 Ohm version as shown.

**We answer your technical questions**

See a complete list of frequently asked questions at L-com.com/FAQS



Item #	Description	Cable	Attachment	1-9	10-24	25-99	100-249	250-499
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RoHS Type N Coaxial Connector - Threaded Style Coupling, 50 Ohm Interface

This medium size coaxial connector utilizes a threaded coupling mechanism for secure mating. Widely used in the telecommunications industry in applications such as base stations. Attachment options of crimp or clamp are available.

BAN111	Type N Plug	RG213	Clamp	6.25	5.88	5.50	5.13	4.75
BAC506	Type N Plug	RG213	Crimp	6.00	5.64	5.28	4.92	4.56
BAC519	Type N Plug	RG58	Crimp	7.25	6.82	6.38	5.94	5.51
BAC523	Type N Plug	RG174	Crimp	6.75	6.35	5.94	5.53	5.13
BAC524	Type N Jack	RG58	Crimp	7.25	6.82	6.38	5.94	5.51
BAC527	Type N Jack	RG174	Crimp	7.25	6.82	6.38	5.94	5.51

RoHS MCX Coaxial Connectors - Lock Snap Style Coupling, 50 Ohm Interface

This subminiature coaxial connector is widely used in GPS and wireless infrastructure applications. Offered in both straight and right angle configurations with crimp style attachment.

BAC507	MCX Plug	RG174/188/316	Crimp	4.75	4.47	4.18	3.89	3.61
BAC508	MCX Plug, Right Angle	RG174/188/316	Crimp	5.00	4.70	4.40	4.10	3.80
BAC526	MCX Jack	RG174/188/316	Crimp	5.75	5.40	5.06	4.72	4.37

RoHS MMCX Coaxial Connectors - Lock Snap Style Coupling 50 Ohm Interface

This microminiaturized connector is widely used in PCB surface mount coaxial interconnect systems in applications such as wireless LAN equipment and GPS.

BAC509	MMCX Plug	RG174/188/316	Crimp	5.25	4.93	4.62	4.31	3.99
BAC510	MMCX Plug, Right Angle	RG174/188/316	Crimp	5.50	5.17	4.84	4.51	4.18

RoHS Reverse Polarized Coaxial Connectors

These difficult to find reverse polarized coaxial connectors utilize a center conductor with reverse polarization (male to female gender) to achieve a non standard interface as required by the FCC for spread spectrum wireless devices.

BAC500	TNC Plug, Reverse Polarized	RG58	Crimp	4.95	4.55	4.16	3.76	3.37
BAC501	TNC Jack, Reverse Polarized	RG58	Crimp	4.95	4.55	4.16	3.76	3.37
BAC502	SMA Plug, Reverse Polarized	RG174/188/316	Crimp	4.95	4.55	4.16	3.76	3.37
BAC503	SMA Jack, Bulkhead, Reverse Polarized	RG174/188/316	Crimp	4.95	4.55	4.16	3.76	3.37
BAC511	MMCX Plug, Rt. Angle, Reverse Polarized	RG174/188/316	Crimp	5.50	5.17	4.84	4.51	4.18
BAC512	SMA Jack, Reverse Polarized	RG174/188/316	Crimp	5.50	5.17	4.84	4.51	4.18

RoHS Twin BNC Connector - Bayonet Style Coupling Polarized Contacts

BAC928	Twin BNC	Twinaxial	Clamp	7.25	6.82	6.38	5.94	5.51
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High Performance 50 Ohm Cable Applications

In many applications the performance of either standard RG series 50 Ohm cable or corrugated jacket 50 Ohm cable is simply not adequate. High performance cables with better loss and shielding characteristics as well as greater flexibility are available for these situations. Below is our offering of connectors for use on four of the more popular high performance cables.

Connectors for Times Microwave LMR® Style Cable

LMR® is a high performance flexible low loss 50 Ohm cable offering compatible RF performance to corrugated jacketed cable but with greater flexibility for ease of use. When compared to RG type braided cables of similar size LMR cables offer far less loss and better RF shielding.

RoHS SMA and Type N - LMR200 and LMR400 Cable

HPC201	SMA Plug	LMR200	Crimp	5.00	4.70	4.40	4.10	3.80
HPC202	SMA Plug, Reverse Polarized	LMR200	Crimp	6.25	5.88	5.50	5.13	4.75
HPC401	SMA Plug	LMR400	Crimp	9.50	8.74	7.98	7.22	6.46
HPC402	SMA Plug, Reverse Polarized	LMR400	Crimp	10.50	9.66	8.82	7.98	7.14
HPC403	SMA Jack	LMR400	Crimp	9.50	8.74	7.98	7.22	6.46
HPC404	Type N Plug	LMR400	Crimp	8.00	7.36	6.72	6.08	5.44
HPC405	Type N Jack	LMR400	Crimp	8.00	7.36	6.72	6.08	5.44

Connectors for Belden 9913 Style Cable

Belden 9913 style cable is an RG8/U type cable with low loss performance characteristics. This cable utilizes a semi-solid polyethylene as an insulator along with a solid 10 AWG center conductor to achieve this performance enhancement.

BNC, TNC and Type N - Belden 9913 Cable

HPC992	BNC Plug	9913	Crimp	11.00	10.12	9.24	8.36	7.48
HPC993	TNC Plug	9913	Crimp	11.00	10.12	9.24	8.36	7.48
HPC994	Type N Plug	9913	Crimp	11.00	10.12	9.24	8.36	7.48

SMA, BNC and TNC - Belden 7807 Cable

Belden 7807 cable is an RG58 type cable with low loss performance characteristics. This cable utilizes a gas injected foam HDPE as an insulator along with a solid 17 AWG center conductor to achieve this performance enhancement.

HPC781	SMA Plug	7807	Crimp	10.50	9.66	8.82	7.98	7.14
HPC782	BNC Plug	7807	Crimp	9.00	8.28	7.56	6.84	6.12
HPC783	TNC Plug	7807	Crimp	9.00	8.28	7.56	6.84	6.12

RoHS Panel Mount Receptacle Connectors

These series of connectors are intended for panel mounting with discrete receptacle terminations. Offered in BNC, RCA, SMA and Type N interfaces with various mounting configurations.

BAC1501	BNC Male Bulkhead	N/A		2.95	2.71	2.48	2.24	2.01
BAC1503	BNC Female Bulkhead	N/A		2.95	2.71	2.48	2.24	2.01
BAC930	Twin BNC Female Bulkhead	N/A		5.95	5.47	5.00	4.52	4.05
BAC440	RCA Female Insulated Bulkhead	N/A		3.95	3.63	3.32	3.00	2.69
BAC260	BNC Female, 4 Hole Flange	N/A		2.95	2.71	2.48	2.24	2.01
BAN113	Type N Female, 4 Hole Flange	N/A		4.95	4.55	4.16	3.76	3.37
BAC70A	BNC Female Bulkhead	N/A		2.95	2.71	2.48	2.24	2.01
BAC16	SMA Female Bulkhead	N/A		4.95	4.55	4.16	3.76	3.37

Crimp Tool Cross Reference Chart

Use this chart to find the correct ferrule and center conductor crimp size as well as the recommended economy, deluxe and deluxe kit crimp tool for each of the connector model numbers listed.

If a specific type is not listed, please visit our website at www.L-com.com for the latest information or call our technical support group at 800-343-1455 for assistance.

CONNECTOR P/N	CRIMP SIZE		CRIMP TOOL		
	FERRULE	CENTER COND.	ECONOMY	DELUXE	DELUXE KIT
BAC518	0.213	0.068	HT106D	HT301A	HT330K
BAC519	0.213	0.068	HT106D	HT301A	HT330K
BAC522	0.213	0.068	HT106D	HT301A	HT330K
BAC524	0.213	0.068	HT106D	HT301A	HT330K
BAC836A-58	0.213	0.068	HT106D	HT301A	HT330K
BAC836A-58P	0.213	0.068	HT106D	HT301A	HT330K
BIF-83	0.231	0.068	HT106D	HT301A	HT330K
BAC523	0.178	0.068	N/A	HT301J	HT330K
BAC526	0.178	0.068	N/A	HT301J	HT330K
BAC527	0.178	0.068	N/A	HT301J	HT330K
BAC528	0.178	0.068	N/A	HT301J	HT330K
BAC836B-74	0.178	0.068	N/A	HT301J	HT330K
BAC893-58	0.213	0.068	HT106D	HT301A	HT330K
BAC893-59	0.255	0.068	HT106D	HT301A	HT330K
BAC908-59	0.255	0.068	HT106D	HT301A	HT330K
BAC934-59	0.255	0.068	HT106D	HT301A	HT330K
BAC706	0.255	0.068	HT106D	HT301A	HT330K
BAC709	0.255	N/A	HT106D	HT301A	HT330K
BAC012	0.324	N/A	HT106H	HT301D	HT330K
BAC013	0.319	N/A	HT106H	HT301C	HT330K
BAC027	0.255	0.068	HT106D	HT301A	HT330K
BAC027A	0.255	0.068	HT106D	HT301A	HT330K
BAC028	0.255	0.068	HT106D	HT301A	HT330K
BAC029	0.324	0.068	N/A	HT301D	HT330K
BAC030	0.324	0.255	N/A	HT301D	HT330K
BAC031	0.324	0.255	N/A	HT301D	HT330K
BAC032	0.319	N/A	HT106H	HT301C	HT330K
BAC520	0.255	0.068	HT106D	HT301A	HT330K
BAC836A-59	0.255	0.068	HT106D	HT301A	HT330K

CONNECTOR P/N	CRIMP SIZE		CRIMP TOOL		
	FERRULE	CENTER COND.	ECONOMY	DELUXE	DELUXE KIT
BAC836B-87	0.213	0.068	HT106D	HT301A	HT330K
BAC042	0.319	N/A	HT106H	HT301C	HT330K
BAC02	0.213	N/A	HT106D	HT301A	HT330K
BAC02A	0.128	N/A	N/A	HT301J	HT330K
BAC03	0.213	0.042	N/A	HT301G	HT330K
BAC03A	0.128	0.042	N/A	HT301J	HT330K
BAC04	0.213	0.042	N/A	HT301G	HT330K
BAC05	0.213	0.042	N/A	HT301G	HT330K
BAC05A	0.128	0.042	N/A	HT301J	HT330K
BAC02-G	0.213	N/A	HT106D	HT301A	HT330K
BAC02A-G	0.128	N/A	N/A	HT301J	HT330K
BAC03-G	0.213	0.042	N/A	HT301G	HT330K
BAC03A-G	0.128	0.042	N/A	HT301J	HT330K
BAC06A	0.128	0.042	N/A	HT301J	HT330K
BAC410	0.213	N/A	HT106D	HT301A	HT330K
BAC8015	0.213	N/A	HT106D	HT301A	HT330K
BAC525	0.213	N/A	HT106D	HT301A	HT330K
BAC500	0.213	N/A	HT106D	HT301A	HT330K
BAC501	0.213	N/A	HT106D	HT301A	HT330K
BAC502	0.128	0.042	N/A	HT301J	HT330K
BAC503	0.137	N/A	N/A	HT301G	HT330K
BAC-CFS6U	0.324	N/A	HT106H	HTS3162CT	N/A
BAC-CFS59U	0.324	N/A	HT106H	HTS3162CT	N/A
BAC-CFS6SUV	0.360	N/A	HT106H	HTS3162CT	N/A
BAC-CFS59SUV	0.360	N/A	HT106H	HTS3162CT	N/A
BAC-EX6	Compression	N/A	N/A	HTS-EX	N/A
BAC-EX59	Compression	N/A	N/A	HTS-EX	N/A
BAC700-6	.319	N/A	HT106H	HT301C	HT330K
BAC700-59	.262	N/A	HT106D	HT301A	HT330K

CONNECTOR P/N	FERRULE	CRIMP TOOL	CENTER COND.	CRIMP TOOL
BAC-UPL2000-D2B	0.255	HTS-CT4L & HTS-CD3-21	0.042	HT010-0055
BAC-UPL2000-D8B	0.255	HTS-CT4L & HTS-CD3-21	0.042	HT010-0055

CONNECTOR P/N	FERRULE	CRIMP TOOL	CENTER COND.	CRIMP TOOL
BAC-UPL220-025	0.255	HTS-CT4L & HTS-CD3-11	0.042	HT010-0055
BAC-UPL220-026	0.178	HTS-CT4L & HTS-CD3-11	0.042	HT010-0055

Item # Description 1-9 10-24 25-99 100-249 250-499

RoHS Economy Crimping Tools - Common Crimp Sizes for Connectors and Center Pins

These heavy-duty crimping tools are economically priced and easy to use. Leverage action produces an enormous force to properly crimp a perfect hex every time. An adjustable cam is added to keep the tool in full conformance with the required tolerance. Tools accept the most popular crimp connector types. HT106D hex sizes are .068", .213" and .255". HT106H hex sizes are .322" and .359".

HT106D	9" Lever Type Coaxial Crimp Tool (.068", .213", .255")	29.95	27.55	25.16	22.76	20.37
HT106H	9" Lever Type Coaxial Crimp Tool (.322", .359")	29.95	27.55	25.16	22.76	20.37

Deluxe Full Cycle Ratchet with Hex Crimping Tools

Your choice of seven similar crimp tools equipped with specific die sets to perform a wide variety of crimping functions to fit your needs.

HT301A	Deluxe Crimp Tool with .256", .213" and .068" Hex Die	31.95	29.39	26.84	24.28	21.73
HT301C	Deluxe Crimp Tool with .319", .256", .213" and .068" Hex Die	39.95	36.75	33.56	30.36	27.17
HT301D	Deluxe Crimp Tool with .324", .256", .213" and .068" Hex Die	39.95	36.75	33.56	30.36	27.17
HT301G	Deluxe Crimp Tool with .255", .213", .137", .100", .069", .043" Hex Die	36.95	33.99	31.04	28.08	25.13
HT301J	Deluxe Crimp Tool with .178", .151", .128", .078", .068", .042" Hex Die	36.95	33.99	31.04	28.08	25.13
HT301K	Deluxe Crimp Tool with .429", .128" and .100" Hex Die	41.95	38.59	35.24	31.88	28.53
HT230A	Deluxe Crimp Tool with .255", .213", .187" and .068" Hex Die	34.95	32.15	29.36	26.56	23.77

Deluxe Full Cycle Ratchet Crimp Tool Kit

Housed in a rugged, high impact carry case is a handy deluxe ratchet crimp tool kit to satisfy most coaxial crimping needs. Kit includes: ratchet tool, 5 sets of interchangeable dies (see table), cable cutter and a rotary cable stripper.

HT330K	Deluxe Crimp Tool Kit	144.95	133.35	121.76	110.16	98.57
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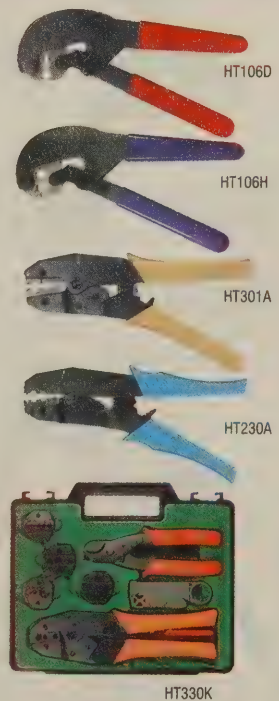
Contents of HT330K Deluxe Crimp Tool Kit

Crimp Die Sizes

.429	.319	.256	.213	.187	.178	.151	.137	.128	.100	.078	.068	.043	.042

6 1/8" Cable Cutter (.410 max.)

Coax Cable Stripper



HT330K



Helpful videos

How-to videos help with some of today's popular product applications. L-com.com/Tips



Item #	Description	1-9	10-24	25-99	100-249	250-499
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Professional Grade Crimp and Compression Tools - for Professional Grade Type F Plugs

Two new ratchet action crimp tools are now offered. Sturdily constructed from high carbon steel ensures long life expectancy. Fully machined crimp cavities ensure accurate crimps every time.

HTS3162CT	Hex Crimp Tool .360" and .470" Sizes	66.50	62.51	58.52	54.53	CALL
HTS-EX	Compression Connector Crimp Tool	79.95	75.15	70.36	65.56	CALL

Easy Strip RG59/6 Coaxial Cable Stripper

A must for anyone working with coaxial cabling. This tool provides a precise industry standard 1/4" cable prep for RG59 and 6 in seconds! Simply compress the jaw, place the cable into the strip insert, release then spin the tool 360° and you're ready to crimp.

HTS8700ES	CATV Stripper Tool for RG59/6	17.50	16.45	15.40	14.35	CALL
HTS8700RB	10 Replacement Cartridges for RG59/6	54.95	51.65	48.36	45.06	CALL

Type F Pocket Toner - Great for Checking Household Coaxial Cabling Runs

This pocket toner is an extremely handy instrument for identifying and testing coaxial cables terminated with Type F connectors such as those used for cable TV. Ruggedly built, the toner base unscrews creating a remote unit that emits a tone when plugged into the far end of the cable run. Other features include a bi-colored LED, which indicates 50-75 Ohm termination, and a power switch to prevent accidental battery drain. Uses 1 standard AAA battery for extra-long life and easy replacement. Features a 1-year warranty.

DXF11	Type F Pocket Toner	34.95	32.15	29.36	26.56	CALL
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Type F Installation Kit - Toner, Crimper, Stripper and 40 Plugs for RG59 or RG6 Coaxial Cabling

We've assembled a kit for installers and technicians who want to terminate popular Type F coaxial cabling. Each kit includes 40 professional grade Type F plugs, a cable stripping tool, a connector crimping tool and a pocket toner. There are two kits to choose from, one for RG59 and one for RG6.

TCK59F	Type F Connector Installation Kit for RG59	99.95	93.95	87.96	81.96	75.96
TCK60F	Type F Connector Installation Kit for RG6	99.95	93.95	87.96	81.96	75.96

Rotary Coaxial Cable Strippers - Adjusted to Accurately Prepare Popular Coaxials

Time saving tools to quickly and accurately cut and trim the coaxial jacket, shield and inner insulation in one easy step. Compartment holds hex key to align sensitive socket and adjust blade cut for optimum results. Available in two or three blade configurations.

HT302A	Coax Cable Stripper, 2-Blade for RG59/62/6	14.95	13.75	12.56	11.36	10.17
HT302B	Coax Cable Stripper, 2-Blade for RG58/59/62	14.95	13.75	12.56	11.36	10.17
HT3021	Set of 4 Replacement Blades for HT302	4.95	4.55	4.16	3.76	3.37
HT312A	Coax Cable Stripper, 3-Blade for RG59/62/6	19.95	18.35	16.76	15.16	13.57
HT312B	Coax Cable Stripper, 3-Blade for RG58/59/62	19.95	18.35	16.76	15.16	13.57
HT312S	Coax Cable Stripper, 3-Blade for RG213/11/8	19.95	18.35	16.76	15.16	13.57
HT312X	Coax Cable Stripper, 3-Blade for 3.5 to 5mm dia.	19.95	18.35	16.76	15.16	13.57
HT3121	Set of 4 Replacement Blades for HT312	4.95	4.55	4.16	3.76	3.37

USA Made Crimping Tool Accepts Dies for Coaxial or Modular Type Terminations

The HTS2100 crimp tool accepts a variety of dies that allow it to crimp modular or coaxial terminations. This top of the line tool is more compact than competitors' models allowing easier crimping ability for people with smaller hands. Molded grips and carbon steel frame is conservatively rated at 50,000+ crimps. This tool also accepts modular die sets listed on [page 38](#).

HTS2100	Crimp Tool Body, accepts any HTS2100 Die Set	59.95	58.75	57.55	56.35	55.15
HTS2100-51	RG58 / RG59 Die Set, use for BNCs and TNCs, .068, .213 and .255 hex	36.00	33.84	31.68	29.52	CALL
HTS2100-53	RG58 / RG59 Die Set, use for SMA's, .042 square, .213 and .255 hex	36.00	33.84	31.68	29.52	CALL
HTS2100-54	RG58 / RG59 Plenum Die Set, use for Plenum BNCs, .042 square, .068, .190 and .213 hex	36.00	33.84	31.68	29.52	CALL
HTS2100-60	RG174 Die Set, use for BNCs and SMA's, .068 and .178 hex	36.00	33.84	31.68	29.52	CALL

Item #	Description	List Price
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Professional Grade 8 Point Center Pin Crimp Tool

This professional grade tool makes pin crimping a breeze. Featuring a multipoint design which has proven to be one of the most reliable attachment methods. Designed for use with the BAC-UPL Series plugs.

HT010-0055	8 Point Center Pin Crimp Tool	99.50
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HTS-CT4L Professional Crimp Tool Accepts Dies for Coaxial Hex Dies

An ergonomic design makes this a tool of choice for professionals. A comfortable, high leverage handle minimizes fatigue. A precision ratchet mechanism assures full cycle crimping. Dies can be easily interchanged with a phillips or flat blade screwdriver.

HTS-CT4L	Professional Crimp Tool Frame	135.00
HTS-CD3-11	734/735 Hex Crimp Die (.255", .178")	95.50
HTS-CD3-21	1505/1506 Hex Crimp Die (.255", .290")	135.00

Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
✓RoHS SMA Coaxial Line Terminators - Match Impedances of the Unused Port or Cable End							
BTSS5F	SMA Terminator, Female, 50 Ohms	Green	6.95	6.39	5.84	5.28	4.73
BTSS5M	SMA Terminator, Male, 50 Ohms	Green	6.95	6.39	5.84	5.28	4.73

✓RoHS BNC Line Terminators - Fully Insulated, Select Impedance to Match Coaxial Cables

Terminators are generally used at the far end of the line. Resistance should match characteristic impedance of the coaxial line, so no reflections or standing waves are present when the signal enters. All terminators listed are rated at 0.5 watt. Fully insulated male versions include Black hood cover as shown. Color coded body to match resistance.

BIF5M	BNC Terminator, Male, use with RG58 (50 Ohms)	Green	4.95	4.55	4.16	3.76	3.37
BIF7M	BNC Terminator, Male, use with RG59 (75 Ohms)	Violet	4.95	4.55	4.16	3.76	3.37
BIF9M	BNC Terminator, Male, use with RG62 (93 Ohms)	White	4.95	4.55	4.16	3.76	3.37
BIF5F	BNC Terminator, Female, use with RG58 (50 Ohms)	Green	3.95	3.63	3.32	3.00	2.69
BIF7F	BNC Terminator, Female, use with RG59 (75 Ohms)	Violet	3.95	3.63	3.32	3.00	2.69
BIF9F	BNC Terminator, Female, use with RG62 (93 Ohms)	White	3.95	3.63	3.32	3.00	2.69

✓RoHS Deluxe BNC and Type N Terminators - Machined Metal Construction with Full Shielding

These deluxe terminators offer a machined body versus a plastic one. Two models also available with grounding cable.

BTB5MD	BNC Terminator, Male, use with RG58 (50 Ohms)	4.95	4.55	4.16	3.76	3.37
BTB5FD	BNC Terminator, Female, use with RG58 (50 Ohms)	4.95	4.55	4.16	3.76	3.37
BTB7MD	BNC Terminator, Male, use with RG59 (75 Ohms)	4.95	4.55	4.16	3.76	3.37
BTB7FD	BNC Terminator, Female, use with RG59 (75 Ohms)	4.95	4.55	4.16	3.76	3.37
BTB9MD	BNC Terminator, Male, use with RG62 (93 Ohms)	4.95	4.55	4.16	3.76	3.37
BTB9FD	BNC Terminator, Female, use with RG62 (93 Ohms)	4.95	4.55	4.16	3.76	3.37
BM50G-1W	BNC Terminator, Male with Ground Cable (50 Ohms)	5.95	5.47	5.00	4.52	4.05
BF50G-1W	BNC Terminator, Female with Ground Cable (50 Ohms)	5.95	5.47	5.00	4.52	4.05
BTN5M	Type N Terminator, Male, use with RG213 and RG58 (50 Ohms)	6.95	6.39	5.84	5.28	4.73
BTN5F	Type N Terminator, Female, use with RG213 and RG58 (50 Ohms)	6.95	6.39	5.84	5.28	4.73

✓RoHS Type F 75 Ohm Terminators - Simple Design Minimizes RF Reflections

Also known as dummy loads, terminators are an essential component in the proper termination of unused outputs of line splitters and amplifiers. Sold in packages of 10.

BTFF75M	Type F 75 Ohm Terminator, Pkg/10	4.95	4.55	4.16	3.76	3.37
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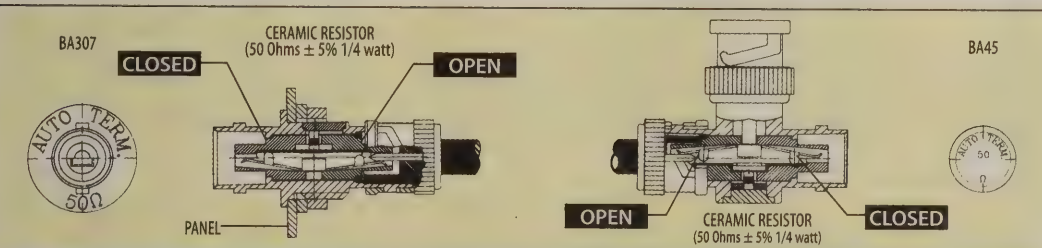
✓RoHS Deluxe Chained Protective Caps

BA09	Protective Cap for SMA Female, with Chain	4.95	4.55	4.16	3.76	3.37
USP-PCB	Protective Cap for BNC Female, with Chain	2.95	2.77	2.60	2.42	2.24
USP-PCT	Protective Cap for TNC Female, with Chain	2.95	2.77	2.60	2.42	2.24

✓RoHS Auto-Terminating Bulkhead or T Adapter - Does Not Need Terminator on Open End

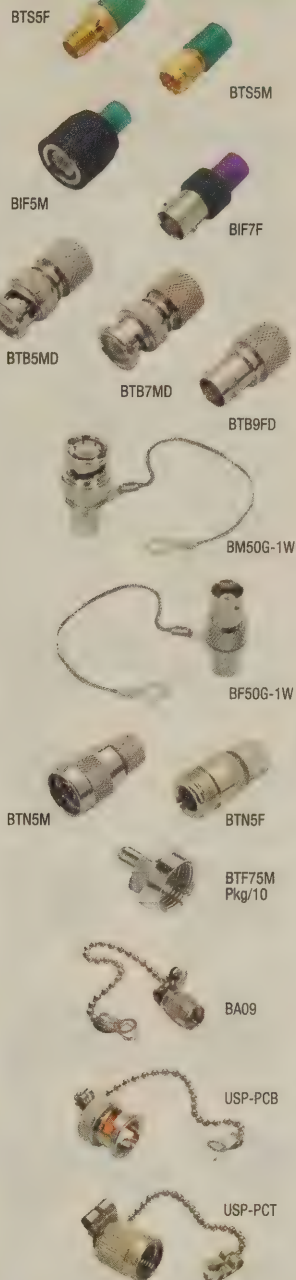
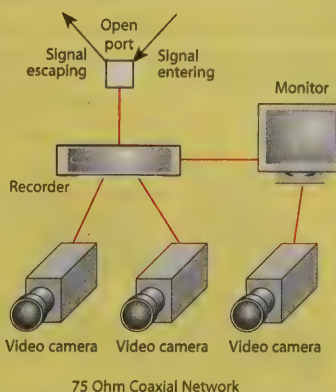
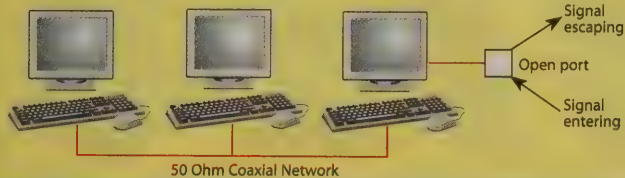
Any rack panel with half inch diameter D-holes will accept either the BA307 or BA307-75 BNC auto-terminating bulkhead adapters. They save the cost and nuisance of using separate terminators. Panels with 16 or 32 D-holes are listed on page 195. Also available are the BA45 and BA45-75 (F-M-F) T adapters, equipped with internal 50 or 75 Ohm auto-terminators.

BA307	BNC Auto-Terminating (F-F) Bulkhead Adapter, 50 Ohm	6.95	6.39	5.84	5.28	4.73
BA307-75	BNC Auto-Terminating (F-F) Bulkhead Adapter, 75 Ohm	6.95	6.39	5.84	5.28	4.73
BA45	BNC Auto-Terminating (F-M-F) T Adapter, 50 Ohm	8.55	7.87	7.18	6.50	5.81
BA45-75	BNC Auto-Terminating (F-M-F) T Adapter, 75 Ohm	8.55	7.87	7.18	6.50	5.81



Tip What is the purpose of an auto terminating adapter?

In today's complex audio, video, data world coaxial cables are used to interconnect various devices. Many times a coaxial cable will not be connected to anything causing an open port which allows signals to escape. This can possibly interfere with an adjacent device and allow signals to enter the network as interference. The use of an auto terminating adapter eliminates this problem by automatically terminating the open port any time a connecting device is disconnected. This eliminates the need to attach a separate terminator which is often lost or forgotten.



Auto-Terminating 50 and 75 Ohm



RoHS status information

listed on every product saves you time.

L-com.com/RoHS

Coaxial Interseries Adapter Selection Matrix

Use this handy chart to locate the desired interseries adapter. Simply locate the connector type and gender in the top row and repeat in the left hand column. Intersect the row and column to determine availability. Adapters shown in this matrix are listed on this and the opposite page. If a specific

adapter type is not listed, please visit our website at www.L-com.com for the latest information or call our technical support group at 800-343-1455 for assistance. Adapters listed are generally intended for use in the RF band.

ADAPTER INTERFACE	BNC F	BNC M	FF	F MALE	MINI UHF F	MINI UHF M	N MALE	SMA F	SMA M	UHF F	UHF M	MMCX F
BNC FEMALE			BA220	BA120, BA037		BA883	BN109	BA588	BA29	BA230	BA50	
BNC MALE			BA125, BA017		BA882		BN107	BA38	BA28	BA60	BA270	
F FEMALE	BA220	BA125, BA017								BA301	BA160	
F MALE	BA120, BA037									BA130		
FME MALE	BA8016	BA8005, BA8006(RA)										
MINI UHF FEMALE		BA882						BA592	BA582		BA884	
MINI UHF MALE	BA883							BA591	BA581	BA885		
N FEMALE	BN110	BN115						BA584	BA25			
N MALE	BN109	BN107						BA34	BA24			
RCA FEMALE	BA94	BA95, BA018		BA887						BA140	BA40	
RCA MALE	BA90		BA897							BA586	BA36	BA3000
SMA FEMALE	BA588	BA38			BA592	BA591	BA34			BA27	BA26	
SMA MALE	BA29	BA28			BA582	BA581	BA24					
TNC FEMALE	BA70	BA71, BA3002(RA)	BA127			BA886		BA590	BA580			
TNC MALE	BA3001			BA121	BA881			BA589	BA579			
UHF FEMALE	BA230	BA60	BA301	BA130		BA885		BA586	BA27			
UHF MALE	BA50	BA270	BA160		BA884			BA36	BA26			
1.6/5.6 MALE	BA9201	BA9200										



Item #	Description	1-9	10-24	25-99	100-249	250-499
✓RoHS BNC Interseries Coaxial Adapters - 50 Ohm						
BA28	Coaxial Adapter, BNC Male / SMA Male	5.75	5.40	5.06	4.72	4.37
BA29	Coaxial Adapter, BNC Female / SMA Male	5.75	5.40	5.06	4.72	4.37
BA38	Coaxial Adapter, BNC Male / SMA Female	5.75	5.40	5.06	4.72	4.37
BA50	Coaxial Adapter, BNC Female / UHF Male	3.95	3.71	3.48	3.24	3.00
BA60	Coaxial Adapter, BNC Male / UHF Female	3.95	3.71	3.48	3.24	3.00
BA70	Coaxial Adapter, BNC Female / TNC Female	4.50	4.23	3.96	3.69	3.42
BA71	Coaxial Adapter, BNC Male / TNC Female	4.50	4.23	3.96	3.69	3.42
BA3001	Coaxial Adapter, BNC Female / TNC Male	4.00	3.76	3.52	3.28	3.04
BA3002	Coaxial Adapter, BNC Male / TNC Female, Right Angle	6.55	6.16	5.76	5.37	4.98
✓RoHS BNC Interseries Coaxial Adapters - 75 Ohm						
BA017	75 Ohm Coaxial Adapter, BNC Male / Type F Female	3.95	3.71	3.48	3.24	3.00
BA018	75 Ohm Coaxial Adapter, BNC Male / RCA Female	2.95	2.77	2.60	2.42	2.24
BA037	75 Ohm Coaxial Adapter, BNC Female / Type F Male	3.95	3.71	3.48	3.24	3.00
✓RoHS SMA Interseries Coaxial Adapters - A Solution to Mating Different Coaxial Types and Genders						
BA24	Coaxial Adapter, SMA Male / Type N Male	5.75	5.40	5.06	4.72	4.37
BA25	Coaxial Adapter, SMA Male / Type N Female	5.75	5.40	5.06	4.72	4.37
BA26	Coaxial Adapter, SMA Male / UHF Male	5.75	5.40	5.06	4.72	4.37
BA27	Coaxial Adapter, SMA Male / UHF Female	5.75	5.40	5.06	4.72	4.37
BA579	Coaxial Adapter, SMA Male / TNC Male	5.75	5.40	5.06	4.72	4.37
BA580	Coaxial Adapter, SMA Male / TNC Female	5.75	5.40	5.06	4.72	4.37
BA581	Coaxial Adapter, SMA Male / Mini UHF Male	5.75	5.40	5.06	4.72	4.37
BA582	Coaxial Adapter, SMA Male / Mini UHF Female	5.75	5.40	5.06	4.72	4.37
BA34	Coaxial Adapter, SMA Female / Type N Male	5.75	5.40	5.06	4.72	4.37
BA584	Coaxial Adapter, SMA Female / Type N Female	5.75	5.40	5.06	4.72	4.37
BA36	Coaxial Adapter, SMA Female / UHF Male	5.75	5.40	5.06	4.72	4.37
BA586	Coaxial Adapter, SMA Female / UHF Female	5.75	5.40	5.06	4.72	4.37
BA588	Coaxial Adapter, SMA Female / BNC Female	5.75	5.40	5.06	4.72	4.37
BA589	Coaxial Adapter, SMA Female / TNC Male	5.75	5.40	5.06	4.72	4.37
BA590	Coaxial Adapter, SMA Female / TNC Female	5.75	5.40	5.06	4.72	4.37
BA591	Coaxial Adapter, SMA Female / Mini UHF Male	5.75	5.40	5.06	4.72	4.37
BA592	Coaxial Adapter, SMA Female / Mini UHF Female	5.75	5.40	5.06	4.72	4.37
BA3000	Coaxial Adapter, SMA Female / MMCX Female	8.00	7.52	7.04	6.56	6.08
✓RoHS FME to BNC Interseries Coaxial Adapters - Useful in Cellular Applications						
Many cellular communication devices utilize the FME connector on coaxial antenna lines. L-com offers a selection of highest quality components utilizing machined brass with nickel plated surfaces and gold plated pins.						
BA8005	Coaxial Adapter, FME Male / BNC Male	3.95	3.71	3.48	3.24	3.00
BA8006	Coaxial Adapter, FME Male / 90° BNC Male	4.95	4.65	4.36	4.06	3.76
BA8016	Coaxial Adapter, FME Male / BNC Female	4.95	4.65	4.36	4.06	3.76



Item #	Description	1-9	10-24	25-99	100-249	250-499
RoHS 1.6/5.6 to BNC Coaxial Adapters - For Conversion to the European Standard						
BA9200	Coaxial Adapter, BNC Male / 1.6/5.6 Female Adapter	7.95	7.47	7.00	6.52	6.04
BA9201	Coaxial Adapter, BNC Female / 1.6/5.6 Male Adapter	7.95	7.47	7.00	6.52	6.04
RoHS Type F Interseries Coaxial Adapters - Mate Type F with Other Connector Interfaces						
BA120	Coaxial Adapter, Type F Male / BNC Female	1.95	1.83	1.72	1.60	1.48
BA121	Coaxial Adapter, Type F Male / TNC Male	1.95	1.83	1.72	1.60	1.48
BA125	Coaxial Adapter, Type F Female / BNC Male	1.95	1.83	1.72	1.60	1.48
BA127	Coaxial Adapter, Type F Female / TNC Female	1.95	1.83	1.72	1.60	1.48
BA220	Coaxial Adapter, Type F Female / BNC Female	1.95	1.83	1.72	1.60	1.48
RoHS RCA Interseries Coaxial Adapters - Mate RCA with Other Connector Interfaces						
BA90	Coaxial Adapter, RCA Male / BNC Female	2.95	2.77	2.60	2.42	2.24
BA94	Coaxial Adapter, RCA Female / BNC Female	2.95	2.77	2.60	2.42	2.24
BA95	Coaxial Adapter, RCA Female / BNC Male	2.95	2.77	2.60	2.42	2.24
BA887	Coaxial Adapter, RCA Female / Type F Female	1.95	1.83	1.72	1.60	1.48
BA907	Coaxial Adapter, RCA Male / Type F Female	1.95	1.83	1.72	1.60	1.48
RoHS Type N Interseries Coaxial Adapters - Mate Type N with BNC Coaxial Connectors						
BN107	Coaxial Adapter, Type N Male / BNC Male	5.75	5.40	5.06	4.72	4.37
BN109	Coaxial Adapter, Type N Male / BNC Female	5.75	5.40	5.06	4.72	4.37
BN110	Coaxial Adapter, Type N Female / BNC Female	5.75	5.40	5.06	4.72	4.37
BN115	Coaxial Adapter, Type N Female / BNC Male	5.75	5.40	5.06	4.72	4.37
RoHS Mini-UHF Interseries Coaxial Adapters - Mate Mini-UHF with Other Connector Interfaces						
BA881	Coaxial Adapter, Mini-UHF Female / TNC Male	5.75	5.40	5.06	4.72	4.37
BA882	Coaxial Adapter, Mini-UHF Female / BNC Male	5.75	5.40	5.06	4.72	4.37
BA883	Coaxial Adapter, Mini-UHF Male / BNC Female	5.75	5.40	5.06	4.72	4.37
BA884	Coaxial Adapter, Mini-UHF Female / UHF Male	5.75	5.40	5.06	4.72	4.37
BA885	Coaxial Adapter, Mini-UHF Male / UHF Female	5.75	5.40	5.06	4.72	4.37
BA886	Coaxial Adapter, Mini-UHF Male / TNC Female	5.75	5.40	5.06	4.72	4.37
RoHS UHF Interseries Coaxial Adapters - Mate UHF with Other Connector Interfaces						
BA40	Coaxial Adapter, UHF Male / RCA Female	2.95	2.77	2.60	2.42	2.24
BA130	Coaxial Adapter, UHF Female / Type F Male	2.95	2.77	2.60	2.42	2.24
BA140	Coaxial Adapter, UHF Female / RCA Male	2.95	2.77	2.60	2.42	2.24
BA160	Coaxial Adapter, UHF Male / Type F Female	2.95	2.77	2.60	2.42	2.24
BA230	Coaxial Adapter, UHF Female / BNC Female	3.95	3.71	3.48	3.24	3.00
BA270	Coaxial Adapter, UHF Male / BNC Male	2.95	2.77	2.60	2.42	2.24
BA301	Coaxial Adapter, UHF Female / Type F Female	2.95	2.77	2.60	2.42	2.24

Deluxe Coaxial Adapter Kit - Immediate Assembly of 108 Adapters

Thirty component parts interchangeably screw together to form up to 108 different types of coaxial adapters, all in a matter of seconds. Disassemble them when you're through, for use next time. Truly a problem solver for those unique situations and it replaces a drawer full of adapters. Premium quality, having gold center pins and Teflon insulators for good conductivity and low loss. All components are gold plated to prevent long term oxidation. The deluxe coaxial adapter kit contains male and female: Type N, BNC, TNC, SMA, UHF and Mini-UHF types of interconnections. Mix and match to suit your immediate needs. Supplied in a handy leatherette, zippered storage case ideal for portable use.

BAK300	Deluxe Coaxial Adapter Kit	125.00	120.00	115.00	110.00	105.00
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Premium Coaxial Adapter Kit - Assemble up to 192 Different Adapters

Forty component parts interchangeably screw together to form up to 192 different types of coaxial adapters. The secret is the special in-between fittings that allow you to assemble virtually any coaxial adapter in a matter of seconds. Mix and match to suit your needs. Disassemble them when you're through for use next time. A problem solver for those unique situations and it replaces a drawer full of adapters. Premium quality, featuring gold plated pins and Teflon insulators and gold plated overall. Kit assembles the same types as the BAK300, plus RCA-Phono and Type F. Supplied in portable black leatherette zippered storage case. No technician or third party maintenance person should be without this.

BAK400	Premium Coaxial Adapter Kit	150.00	144.00	138.00	132.00	126.00
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SMA Interseries Adapter Kit - 10 of the Most Commonly Used Adapters

The BA1200K includes 10 of the most commonly used SMA interseries adapters. This kit is a super value versus buying the parts separately and includes a free 7 compartment plastic case. Adapters included are: BA20, BA23 (2), BA28 (2), BA29 (2), BA34, BA38, BA588.

BA1200K	SMA Interseries Adapter Kit	49.95	46.95	43.96	40.96	37.96
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BNC Interseries Assortment - Adapters to Mate SMA, UHF, RCA and Type F

A handy adapter assortment to have in the lab or workshop. How many times did you come up with a mismatch in coaxial cables and nowhere to turn to make the connection? We have the answer with our Interseries Assortment that contains eleven adapters, one each of the following: BA28, BA38, BA50, BA60, BA90, BA94, BA95, BA120, BA125, BA220 and BA230. Seven compartment carry case included.

BA1800K	BNC Interseries Adapter Assortment	39.95	37.55	35.16	32.76	30.36
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L-com Global Connectivity

Coaxial Within Series Adapter Selection Matrix

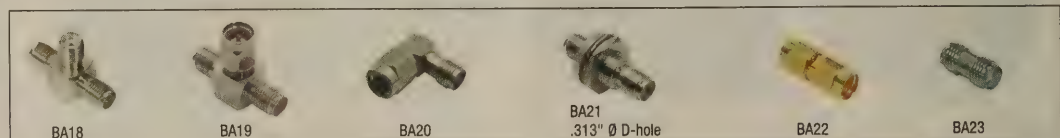
Use this handy chart to locate the desired within series or T type adapter. Simply locate the connector type and configuration in the top row. Then find the connector type and gender in the left hand column. Intersect the row and column to determine availability. If a specific adapter type is not listed, please

visit our website at www.L-com.com for the latest information or call our technical support group at 800-343-1455 for assistance. Adapters listed are generally intended for use in the RF band.

INTERFACE SERIES	SAME GENDER IN SERIES			GENDER CHANGE IN SERIES			
	STRAIGHT	BULKHEAD	3 PORT TEE (F, F, F)	STRAIGHT	RIGHT ANGLE	3 PORT TEE (F, M, F)	3 PORT F or Y
BNC FEMALE	BA80, BA80E, BIF-CB	BA1087, BA1089, BA1087E	BA832, BA832E		BA240	BA250, BA250E, BIF-TB1, BIF-TB2	BA840 (F), BA845 (Y)
BNC FEMALE (75 Ohms)	BA016	BA036, BA039	BA019		BA038	BA035	
BNC MALE	BA100						
F FEMALE		BA330A	BA132	BA124	BA126, BA123	BA133	
F MALE	BA122				BA470		
MINI UHF FEMALE	BA476						
MINI UHF MALE	BA478						
N FEMALE	BN120, BIF-CN	BN620	BN133		BN121	BN126	
N MALE	BN106						
RCA FEMALE		BA400(R, G, B, Y), BA400A					
SMA FEMALE	BA23	BA21	BA18		BA20	BA19	
SMA MALE	BA22						
TNC FEMALE		BA2301, BA1090		BA4000			
UHF FEMALE	BA170	BA406Z	BA303		BA404Z	BA405Z	
UHF MALE	BA280						



Item #	Description	1-9	10-24	25-99	100-249	250-499
RoHS BNC Within Series Adapters						
BA80	Coaxial Adapter, BNC Female / Female	1.95	1.83	1.72	1.60	1.48
BA100	Coaxial Adapter, BNC Male / Male	2.95	2.77	2.60	2.42	2.24
BA240	Coaxial Adapter, BNC Female / 90° Male	3.95	3.71	3.48	3.24	3.00
BA250	Coaxial T Adapter, BNC Female / Male / Female	3.95	3.71	3.48	3.24	3.00
BA832	Coaxial T Adapter, BNC Female / Female / Female	3.95	3.71	3.48	3.24	3.00
BA840	Coaxial Adapter, BNC Male / Female / Female	7.95	7.47	7.00	6.52	6.04
BA845	Coaxial Adapter, BNC Female / Male / Female	7.95	7.47	7.00	6.52	6.04
BA1087	Coaxial Adapter, BNC Bulkhead, Female / Female, Grounded	3.95	3.71	3.48	3.24	3.00
BA1089	Coaxial Adapter, BNC Bulkhead, Female / Female, Insulated Ground	4.95	4.65	4.36	4.06	3.76
RoHS TNC Within Series Adapters						
BA2301	Coaxial Adapter, TNC Bulkhead, Female / Female, Grounded	4.95	4.65	4.36	4.06	3.76
BA1090	Coaxial Adapter, TNC Bulkhead, Female / Female, Insulated Ground	5.95	5.59	5.24	4.88	4.52
BA4000	Coaxial Adapter, TNC Male / Female	3.75	3.53	3.30	3.08	2.85
RoHS Economy BNC Adapters - Cast Metal Components Save on Production Costs						
BA80E	Economy Coaxial Adapter, BNC Female / Female	1.25	1.17	1.10	1.02	0.95
BA250E	Economy Coaxial T Adapter, BNC Female / Male / Female	1.95	1.83	1.72	1.60	1.48
BA832E	Economy Coaxial T Adapter, BNC Female / Female / Female	2.95	2.77	2.60	2.42	2.24
BA1087E	Economy Coaxial Adapter, BNC Bulkhead Adapter, Grounded	2.95	2.77	2.60	2.42	2.24
RoHS RCA Female Feed-Thru Adapter - with Red, Green, Blue, Yellow or White Insulators						
These RCA feed-thru adapters feature color coded insulators for video and audio applications. This color coding helps avoid improper connections.						
BA400R	Coaxial Adapter, RCA Bulkhead Female / Female, Red Insulator	3.65	3.43	3.21	2.99	2.77
BA400G	Coaxial Adapter, RCA Bulkhead Female / Female, Green Insulator	3.65	3.43	3.21	2.99	2.77
BA400B	Coaxial Adapter, RCA Bulkhead Female / Female, Blue Insulator	3.65	3.43	3.21	2.99	2.77
BA400Y	Coaxial Adapter, RCA Bulkhead Female / Female, Yellow Insulator	3.65	3.43	3.21	2.99	2.77
BA400	Coaxial Adapter, RCA Bulkhead Female / Female, White Insulator	3.65	3.43	3.21	2.99	2.77
BA400A	Coaxial Adapter, RCA Bulkhead Female / Female, 0.5" Circular Hole	3.65	3.43	3.21	2.99	2.77
RoHS Type N Within Series Adapters						
BN106	Coaxial Adapter, Type N Male / Male	5.75	5.40	5.06	4.72	4.37
BN120	Coaxial Adapter, Type N Female / Female	5.75	5.40	5.06	4.72	4.37
BN121	Coaxial Adapter, Type N Female / Male, 90°	5.75	5.40	5.06	4.72	4.37
BN126	Coaxial T Adapter, Type N Female / Female / Male	5.75	5.40	5.06	4.72	4.37
BN133	Coaxial T Adapter, Type N Female / Female / Female	5.75	5.40	5.06	4.72	4.37
BN620	Coaxial Adapter, Type N Female / Female (Bulkhead)	5.75	5.40	5.06	4.72	4.37
RoHS SMA Within Series Adapters						
L-com offers the interseries coaxial adapters to help you match any SMA terminated cable to any other. Adapters are machined nickel plated brass, contacts are gold plated.						
BA18	Coaxial Adapter, SMA Female / Female / Female	5.75	5.40	5.06	4.72	4.37
BA19	Coaxial Adapter, SMA Female / Male / Female	5.75	5.40	5.06	4.72	4.37
BA20	Coaxial Adapter, SMA Female / Male, 90°	5.75	5.40	5.06	4.72	4.37
BA21	Coaxial Adapter, SMA Female / Female (Bulkhead)	5.75	5.40	5.06	4.72	4.37
BA22	Coaxial Adapter, SMA Male / Male	5.75	5.40	5.06	4.72	4.37
BA23	Coaxial Adapter, SMA Female / Female	5.75	5.40	5.06	4.72	4.37



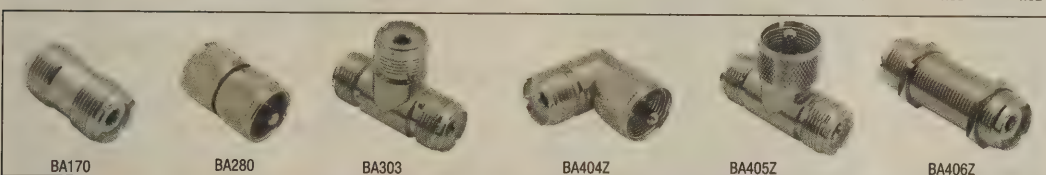
Item #	Description	Color	1-9	10-24	25-99	100-249	250-499
RoHS Type F Within Series Adapters							
BA122	Coaxial Adapter, Type F Male / Male		1.95	1.83	1.72	1.60	1.48
BA123	Coaxial Adapter, Type F Female / Male, Right Angle		1.95	1.83	1.72	1.60	1.48
BA124	Coaxial Adapter, Type F Male Push-on / Female		1.25	1.17	1.10	1.02	0.95
BA126	Coaxial Adapter, Type F Female / Male Push On, 90°		1.95	1.83	1.72	1.60	1.48
BA132	Coaxial T Adapter, Type F Female / Female / Female		2.95	2.77	2.60	2.42	2.24
BA133	Coaxial T Adapter, Type F Male Push-on / Female / Female		2.95	2.77	2.60	2.42	2.24
BA330A	Coaxial Bulkhead Adapter, Type F Female / Female, (.5 D-Hole)		1.95	1.83	1.72	1.60	1.48
RoHS True 75 Ohm BNC Within Series Adapters - To Precisely Match All 75 Ohm Coaxial Cables							
BA016	75 Ohm Coaxial Adapter, BNC Female / Female (Splice)		2.95	2.77	2.60	2.42	2.24
BA019	75 Ohm T Coaxial Adapter, BNC, Female / Female / Female		4.95	4.65	4.36	4.06	3.76
BA035	75 Ohm T Coaxial Adapter, BNC, Female / Male / Female		4.95	4.65	4.36	4.06	3.76
BA036	75 Ohm Coaxial Adapter, BNC Female / Female Bulkhead		4.95	4.65	4.36	4.06	3.76
BA038	75 Ohm Coaxial Adapter, BNC, Male / 90° Female		4.95	4.65	4.36	4.06	3.76
BA039	75 Ohm Coaxial Adapter, BNC Female / Female Bulkhead		5.65	5.31	4.97	4.63	4.29

RoHS Mini-UHF Within Series Adapters

BA470	Coaxial Adapter, Mini-UHF Female / 90° Male		5.95	5.59	5.24	4.88	4.52
BA476	Coaxial Adapter, Mini-UHF Female / Female		3.95	3.71	3.48	3.24	3.00
BA478	Coaxial Adapter, Mini-UHF Male / Male		3.95	3.71	3.48	3.24	3.00

RoHS UHF Within Series Adapters

BA170	Coaxial Adapter, UHF Female / Female		2.95	2.77	2.60	2.42	2.24
BA280	Coaxial Adapter, UHF Male / Male		2.95	2.77	2.60	2.42	2.24
BA303	Coaxial T Adapter, UHF Female / Female / Female		5.95	5.59	5.24	4.88	4.52
BA404Z	Coaxial Adapter, UHF Male / 90° Female		5.95	5.59	5.24	4.88	4.52
BA405Z	Coaxial T Adapter, UHF Female / Male / Female		5.95	5.59	5.24	4.88	4.52
BA406Z	Coaxial Adapter, UHF Feed-Thru Female / Female		5.95	5.59	5.24	4.88	4.52

**RoHS Insulated Coaxial Connections - Needed to Prevent Ground Loops and Noise**

Data signals are particularly susceptible to both ground loop and common mode interference. Reducing the number of ground points of a coaxial wiring system reduces the number of potential ground loops and multiple noise currents.

BIF-CB	Coaxial Coupler, BNC Female / Female		2.95	2.77	2.60	2.42	2.24
BIF-CN	Coaxial Coupler, Type N Female / Female		6.95	6.53	6.12	5.70	5.28
BIF-TB1	Coaxial T Adapter, BNC Female / (Male) / Female		5.65	5.31	4.97	4.63	4.29
BIF-TB2	Coaxial T Adapter, BNC (Female) / (Male) / (Female)		5.95	5.59	5.24	4.88	4.52

RoHS BNC Connector Identifiers/Insulators - Take on New Look with Color-Coded Insulated Covers

The conventional BNC crimp connector may now be modified to be fully insulated, helping eliminate ground loop problems. Our colorful slip-on insulated covers are quick to assemble and provide color coding. The hood cover is installed over the BNC movable collar; the plastic bend strain protector is slipped on over ferrule after the crimping operation. An important feature is the added support offered by the bend-protector; it helps prevent cable breakage.

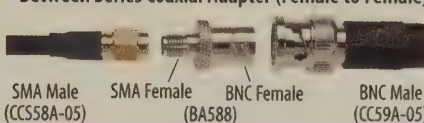
BIF-H0	Coaxial Connector Cover for BNC, Pkg/10	Black	1.95	1.79	1.64	1.48	1.33
BIF-H2	Coaxial Connector Cover for BNC, Pkg/10	Red	1.95	1.79	1.64	1.48	1.33
BIF-H5	Coaxial Connector Cover for BNC, Pkg/10	Green	1.95	1.79	1.64	1.48	1.33
BIF-H6	Coaxial Connector Cover for BNC, Pkg/10	Blue	1.95	1.79	1.64	1.48	1.33
BIF-H9	Coaxial Connector Cover for BNC, Pkg/10	White	1.95	1.79	1.64	1.48	1.33
BIF-P0-58	Coaxial Plastic Bend Protector for RG58, Pkg/10	Black	1.75	1.61	1.47	1.33	1.19
BIF-P2-58	Coaxial Plastic Bend Protector for RG58, Pkg/10	Red	1.75	1.61	1.47	1.33	1.19
BIF-P5-58	Coaxial Plastic Bend Protector for RG58, Pkg/10	Green	1.75	1.61	1.47	1.33	1.19
BIF-P6-58	Coaxial Plastic Bend Protector for RG58, Pkg/10	Blue	1.75	1.61	1.47	1.33	1.19
BIF-P9-58	Coaxial Plastic Bend Protector for RG58, Pkg/10	White	1.75	1.61	1.47	1.33	1.19
BIF-P0-59/62	Coaxial Plastic Bend Protector for RG59/62, Pkg/10	Black	1.75	1.61	1.47	1.33	1.19
BIF-P2-59/62	Coaxial Plastic Bend Protector for RG59/62, Pkg/10	Red	1.75	1.61	1.47	1.33	1.19
BIF-P5-59/62	Coaxial Plastic Bend Protector for RG59/62, Pkg/10	Green	1.75	1.61	1.47	1.33	1.19
BIF-P6-59/62	Coaxial Plastic Bend Protector for RG59/62, Pkg/10	Blue	1.75	1.61	1.47	1.33	1.19
BIF-P9-59/62	Coaxial Plastic Bend Protector for RG59/62, Pkg/10	White	1.75	1.61	1.47	1.33	1.19



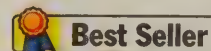
What is the difference between a WITHIN SERIES coaxial adapter and a BETWEEN SERIES coaxial adapter?

Within Series Coaxial Adapter (Female to Female)

A **WITHIN SERIES** coaxial adapter connects between two interfaces of the same series (i.e. SMA to SMA) in female to female, male to female or male to male configurations.

Between Series Coaxial Adapter (Female to Female)

A **BETWEEN SERIES** coaxial adapter connects between two interfaces of different series (i.e. SMA to BNC) in female to female, male to female or male to male configurations.

**Helpful videos**

How-to videos help with some of today's popular product applications. L-com.com/Tips

Item #	Description	Cable Type	1-9	10-24	25-99	100-249	250-499
RoHS Coaxial Adapters							
L-com stocks hundreds of the most popular types of coaxial adapters for today's wireless applications. A multitude of adapter configurations are available off the shelf and are ready for same day shipping. These adapters are great for connecting unlike cable connector types when installing RF radios, amplifiers, splitters and filters.							
AXA-RTRTP	Coaxial Adapter, RP TNC-Plug to RP TNC-Plug Barrel Adapter		3.49	3.35	3.21	2.97	2.62
AXA-AMNFB	Coaxial Adapter, N-Female Bulkhead to NMO Adapter		12.99	12.47	11.95	11.04	9.74
AXA-NFBF	Coaxial Adapter, N-Female to BNC-Female Adapter		2.99	2.87	2.75	2.54	2.24
AXA-NFBM	Coaxial Adapter, N-Female to BNC-Male Adapter		3.49	3.35	3.21	2.97	2.62
AXA-NFMUM	Coaxial Adapter, N-Female to Mini-UHF Male Adapter		3.49	3.35	3.21	2.97	2.62
AXA-NFNF	Coaxial Adapter, N-Female to N-Female Bulkhead Adapter		3.99	3.83	3.67	3.39	2.99
AXA-NFNFB	Coaxial Adapter, N-Female to N-Female 1/8" Adapter		3.49	3.35	3.21	2.97	2.62
AXA-NFNFB2	Coaxial Adapter, N-Female to N-Female 1/4" Adapter		3.49	3.35	3.21	2.97	2.62
AXA-NFRBP	Coaxial Adapter, N-Female to RP BNC Plug Adapter		3.49	3.35	3.21	2.97	2.62
AXA-NFRSJ	Coaxial Adapter, N-Female to RP-SMA Jack Adapter		4.99	4.79	4.59	4.24	3.74
AXA-NFRSP	Coaxial Adapter, N-Female to RP-SMA Plug Adapter		3.99	3.83	3.67	3.39	2.99
AXA-NFRTP	Coaxial Adapter, N-Female to RP-TNC Plug Adapter		4.99	4.79	4.59	4.24	3.74
AXA-NFRTP2	Coaxial Adapter, N-Female to RP-TNC Plug Adapter 1 Piece Design		4.99	4.79	4.59	4.24	3.74
AXA-NFSF	Coaxial Adapter, N-Female to SMA Female Adapter		4.99	4.79	4.59	4.24	3.74
AXA-NFTM	Coaxial Adapter, N-Female to TNC Male Adapter		3.49	3.35	3.21	2.97	2.62
AXA-NMBF	Coaxial Adapter, N-Male to BNC Female Adapter		3.49	3.35	3.21	2.97	2.62
AXA-NMFF	Coaxial Adapter, N-Male to F-Female Adapter		3.49	3.35	3.21	2.97	2.62
AXA-NMNF90	Coaxial Adapter, N-Male to N-Female Right Angle Adapter		5.99	5.75	5.51	5.09	4.49
AXA-NMNM	Coaxial Adapter, N-Male to N-Male Bulkhead Adapter		3.99	3.83	3.67	3.39	2.99
AXA-NMNM90	Coaxial Adapter, N-Male to N-Male Right Angle Adapter		5.99	5.75	5.51	5.09	4.49
AXA-NMRSJ	Coaxial Adapter, N-Male to RP-SMA Jack Adapter		4.99	4.79	4.59	4.24	3.74
AXA-NMRSP	Coaxial Adapter, N-Male to RP-SMA Plug Adapter		4.99	4.79	4.59	4.24	3.74
AXA-NMRTJ	Coaxial Adapter, N-Male to RP-TNC Jack Adapter		4.99	4.79	4.59	4.24	3.74
AXA-NMRTJ	Coaxial Adapter, N-Male to RP-TNC Plug Adapter		3.99	3.83	3.67	3.39	2.99
AXA-NMSF	Coaxial Adapter, N-Male to SMA Female Adapter		3.99	3.83	3.67	3.39	2.99
AXA-NMSM	Coaxial Adapter, N-Male to SMA Male Adapter		3.99	3.83	3.67	3.39	2.99
AXA-NMTF	Coaxial Adapter, N-Male to TNC Female Adapter		3.99	3.83	3.67	3.39	2.99
AXA-RSJRJB	Coaxial Adapter, RP-SMA Jack to RP-SMA Jack Bulkhead Adapter		3.99	3.83	3.67	3.39	2.99
AXA-RSPRSP	Coaxial Adapter, RP-SMA Plug to RP-SMA Plug Bulkhead Adapter		3.99	3.83	3.67	3.39	2.99
AXA-RTJRSP	Coaxial Adapter, RP-TNC Jack to RP-SMA Plug Adapter		3.99	3.83	3.67	3.39	2.99
AXA-RTJRTJ	Coaxial Adapter, RP-TNC Jack to RP-TNC Jack Bulkhead Adapter		3.99	3.83	3.67	3.39	2.99
AXA-RTPRSJ	Coaxial Adapter, RP-TNC Plug to RP-SMA Jack Adapter		3.99	3.83	3.67	3.39	2.99
AXA-SFSFB	Coaxial Adapter, SMA Female to SMA Female Bulkhead Adapter		3.99	3.83	3.67	3.39	2.99
AXA-SMSM	Coaxial Adapter, SMA Male to SMA Male Bulkhead Adapter		3.49	3.35	3.21	2.97	2.62

Coaxial Connectors

In addition to the most popular styles L-com also provide harder to find connectors for all your application needs. Configurations include crimp style, clamp style, bulkhead style and panel mount connectors. Each connector is precision manufactured using only the highest quality materials.

RoHS Type N Connectors

ANF-3700	N-Female Bulkhead Crimp	195-Series, RG58	4.19	4.02	3.85	3.56	3.14
ANF-1700	N-Female Crimp	195-Series, RG58	3.49	3.35	3.21	2.97	2.62
ANF-1700-25BP	N-Female Crimp, 25-Pack	195-Series, RG58	3.29	3.16	3.03	2.80	2.47
ANF-5700	N-Female Panel Mount Crimp	195-Series, RG58	3.69	3.54	3.39	3.14	2.77
ANF-1202	N-Female Crimp	200-Series	3.49	3.35	3.21	2.97	2.62
ANF-1508	N-Female Crimp	240-Series	3.49	3.35	3.21	2.97	2.62
ANF-1304	N-Female Crimp	300-Series	3.49	3.35	3.21	2.97	2.62
ANF-1406	N-Female Crimp	400-Series	3.49	3.35	3.21	2.97	2.62
ANF-2400	N-Female Crimp	400-Series	3.69	3.54	3.39	3.14	2.77
ANF-2602	N-Female Crimp	600-Series	4.99	4.79	4.59	4.24	3.74
ANF-1610	N-Female Crimp	600-Series	6.29	6.04	5.79	5.35	4.72
ANF-2904	N-Female Crimp	900-Series	49.99	47.99	45.99	42.49	37.49
ANM-1700	N-Male Crimp	195-Series, RG58	3.49	3.35	3.21	2.97	2.62
ANM-1700-25BP	N-Male Crimp, 25-Pack	195-Series, RG58	3.29	3.16	3.03	2.80	2.47
ANM-1716	N-Male Right Angle Crimp	195-Series, RG58	4.19	4.02	3.85	3.56	3.14
ANM-1202	N-Male Crimp	200-Series	3.49	3.35	3.21	2.97	2.62
ANM-1508	N-Male Crimp	240-Series	3.49	3.35	3.21	2.97	2.62
ANM-1516	N-Male Right Angle Crimp	240-Series	6.29	6.04	5.79	5.35	4.72
ANM-1304	N-Male Crimp	300-Series	3.49	3.35	3.21	2.97	2.62
ANM-1416	N-Male Right Angle Crimp	400-Series	4.19	4.02	3.85	3.56	3.14
ANM-1406	N-Male Crimp	400-Series	3.49	3.35	3.21	2.97	2.62
ANM-1406-25BP	N-Male Crimp, 25-Pack	400-Series	3.29	3.16	3.03	2.80	2.47
ANM-2400	N-Male Crimp	400-Series	3.69	3.54	3.39	3.14	2.77
ANM-2602	N-Male Crimp	600-Series	5.25	5.04	4.83	4.46	3.94
ANM-1610	N-Male Crimp	600-Series	6.29	6.04	5.79	5.35	4.72
ANM-1616	N-Male Right Angle Crimp	600-Series	6.29	6.04	5.79	5.35	4.72
ANM-2904	N-Male Crimp	900-Series	29.99	28.49	26.99	25.49	CALL
ARNJ-1700	Reverse Polarity N Jack Crimp	195-Series, RG58	4.19	4.02	3.85	3.56	3.14
ARNJ-1404	Reverse Polarity Jack Crimp	400-Series	4.19	4.02	3.85	3.56	3.14
ARNP-1700	Reverse Polarity Plug Crimp	195-Series, RG58	4.19	4.02	3.85	3.56	3.14
ARNP-1202	Reverse Polarity Plug Crimp	200-Series	4.19	4.02	3.85	3.56	3.14
ARNP-1404	Reverse Polarity Plug Crimp	400-Series	4.19	4.02	3.85	3.56	3.14

RoHS TNC Connectors

ATF-3700	TNC Female Bulkhead Crimp	195-Series, RG58	3.49	3.35	3.21	2.97	2.62
ATF-1700	TNC Female Crimp	195-Series, RG58	1.69	1.62	1.55	1.44	1.27
ATF-1506	TNC Female Crimp	240-Series	3.49	3.35	3.21	2.97	2.62
ATF-1402	TNC Female Crimp	400-Series	3.49	3.35	3.21	2.97	2.62
ATM-1700	TNC Male Crimp	195-Series, RG58	3.15	3.02	2.90	2.68	2.36
ATM-1204	TNC Male Crimp	200-Series	3.15	3.02	2.90	2.68	2.36
ATM-1506	TNC Male Crimp	240-Series	3.69	3.54	3.39	3.14	2.77
ATM-1402	TNC Male Crimp	400-Series	3.69	3.54	3.39	3.14	2.77
ATML-1400	TNC Male Reverse Thread Crimp	400-Series	3.49	3.35	3.21	2.97	2.62
ARTJ-3702	Reverse Polarity TNC Jack Bulkhead Crimp	195-Series, RG58	3.15	3.02	2.90	2.68	2.36
ARTJ-1708	Reverse Polarity TNC Jack Crimp	195-Series, RG58	3.15	3.02	2.90	2.68	2.36

Most Connectors are sold in 10-Packs.
Adapters are sold individually.

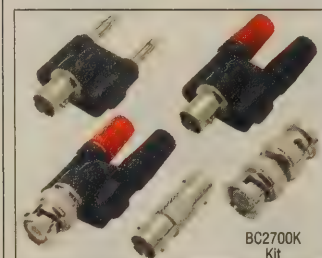
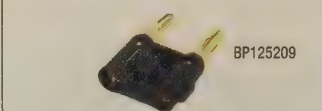
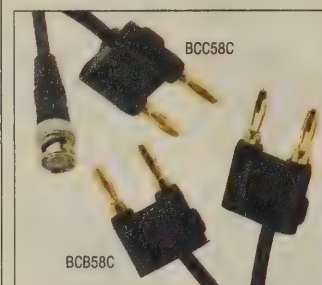
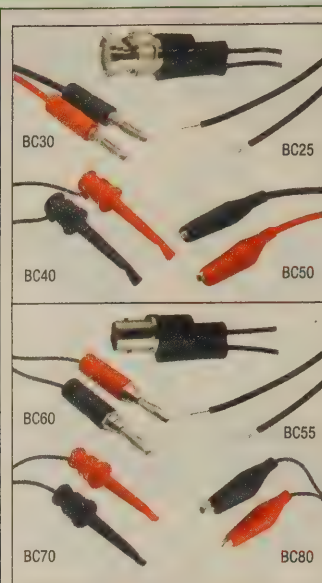


For more useful information go to....
www.L-com.com/Resources

Item #	Description	Cable Type	1-9	10-24	25-99	100-249	250-499
RoHS TNC Connectors							
ARTP-1708-25BP	Reverse Polarity TNC Plug Crimp, 25-Pack	195-Series, RG58	3.15	3.02	2.90	2.68	2.36
ARTJ-3400	Reverse Polarity TNC Jack Bulkhead Crimp	400-Series	3.15	3.02	2.90	2.68	2.36
ARTJ-1404	Reverse Polarity TNC Jack Crimp	400-Series	3.49	3.35	3.21	2.97	2.62
ARTJ-1606	Reverse Polarity TNC Jack Crimp	600-Series	3.49	3.35	3.21	2.97	2.62
ARTP-1708	Reverse Polarity TNC Plug Crimp	195-Series, RG58	3.15	3.02	2.90	2.68	2.36
ARTP-1714	Reverse Polarity TNC Plug Right Angle Crimp	195-Series, RG58	4.19	4.02	3.85	3.56	3.14
ARTP-1200	Reverse Polarity TNC Plug Crimp	200-Series	3.15	3.02	2.90	2.68	2.36
ARTP-1502	Reverse Polarity TNC Plug Crimp	240-Series	4.19	4.02	3.85	3.56	3.14
ARTP-1312	Reverse Polarity TNC Plug Crimp	300-Series	4.19	4.02	3.85	3.56	3.14
ARTP-1404	Reverse Polarity TNC Plug Crimp	400-Series	4.19	4.02	3.85	3.56	3.14
ARTP-1606	Reverse Polarity TNC Plug Crimp	600-Series	5.25	5.04	4.83	4.46	3.94
RoHS SMA Connectors							
ASF-3700	SMA Female Bulkhead Crimp	195-Series, RG58	3.49	3.35	3.21	2.97	2.62
ASF-1708	SMA Female Crimp	195-Series, RG58	3.49	3.35	3.21	2.97	2.62
ASM-1102	SMA Male Crimp	100-Series	3.49	3.35	3.21	2.97	2.62
ASM-1504	SMA Male Crimp	240-Series	3.15	3.02	2.90	2.68	2.36
ASM-1710	SMA Male Right Angle Crimp	195-Series, RG58	3.49	3.35	3.21	2.97	2.62
ASM-1708	SMA Male Straight Crimp	195-Series, RG58	3.49	3.35	3.21	2.97	2.62
ASM-1406	SMA Male Crimp	400-Series	3.49	3.35	3.21	2.97	2.62
ARSJ-3700	Reverse Polarity SMA Jack Bulkhead Crimp	195-Series, RG58	4.19	4.02	3.85	3.56	3.14
ARSJ-1700	Reverse Polarity SMA Jack Crimp	195-Series, RG58	4.19	4.02	3.85	3.56	3.14
ARSJ-1404	Reverse Polarity SMA Jack Crimp	400-Series	4.19	4.02	3.85	3.56	3.14
ARSP-1100	Reverse Polarity SMA Plug Crimp	100-Series	3.49	3.35	3.21	2.97	2.62
ARSP-1700	Reverse Polarity SMA Plug Crimp	195-Series, RG58	4.19	4.02	3.85	3.56	3.14
ARSP-1702	Reverse Polarity SMA Plug Right Angle Crimp	195-Series, RG58	4.19	4.02	3.85	3.56	3.14
ARSP-1202	Reverse Polarity SMA Plug Crimp	200-Series	3.49	3.35	3.21	2.97	2.62
ARSP-1504	Reverse Polarity SMA Plug Crimp	240-Series	4.19	4.02	3.85	3.56	3.14
ARSP-1404	Reverse Polarity SMA Plug Crimp	400-Series	5.25	5.04	4.83	4.46	3.94
RoHS MC Card Connector							
AMCM-1102	MC Card Male Crimp	100-Series	3.15	3.02	2.90	2.68	2.36
RoHS MCX Connector							
AMM-1102	MCX Male Straight Crimp	100-Series	3.15	3.02	2.90	2.68	2.36
RoHS MMCX Connectors							
AMMM-1100	MMCX Male Crimp	100-Series	3.15	3.02	2.90	2.68	2.36
AMMM-1104	MMCX Male Right Angle Crimp	100-Series	3.15	3.02	2.90	2.68	2.36
AMMM-1106	MMCX Male Straight Crimp	100-Series	3.15	3.02	2.90	2.68	2.36
ARMMP-1100	Reverse Polarity MMCX Plug Right Angle Crimp	100-Series	3.49	3.35	3.21	2.97	2.62
RoHS BNC Connector							
ABM-1700	BNC Male Crimp	195-Series, RG58	2.09	2.01	1.92	1.78	1.57
ARBJ-1700	Reverse Polarity BNC Jack Crimp	195-Series, RG58	3.15	3.02	2.90	2.68	2.36
ARBP-1700	Reverse Polarity BNC Plug Crimp	195-Series, RG58	3.49	3.35	3.21	2.97	2.62
ARBP-1402	Reverse Polarity BNC Plug Crimp	400-Series	3.49	3.35	3.21	2.97	2.62
RoHS F Type Connector							
AFM-1700	F-Male Crimp	195-Series, RG58	3.15	3.02	2.90	2.68	2.36
RoHS NMO Connector							
AAM1-1700	NMO 3/4" Hole Crimp	195-Series, RG58	3.49	3.35	3.21	2.97	2.62
RoHS UHF Connector							
AUM-1700	UHF Male Crimp	195-Series, RG58	2.99	2.87	2.75	2.54	2.24
AUM-1402	UHF Male Crimp	400-Series	2.99	2.87	2.75	2.54	2.24
RoHS QMA Connector							
AQP-1700	QMA Plug Right Angle Crimp	195-Series, RG58	6.29	6.04	5.79	5.35	4.72
RoHS ORINOCO Compatible Connectors							
AAPM-1100	AIProx Male Right Angle Crimp	100-Series	3.99	3.83	3.67	3.39	2.99
AAPM-1700	AIProx Male Right Angle Crimp	195-Series, RG58	3.49	3.35	3.21	2.97	2.62
RoHS S/E Ericsson Connector							
ASEP-1100	S/E Plug, Ericsson Type 23, 7 Crimp	100-Series	3.49	3.35	3.21	2.97	2.62
RoHS Waverider Compatible Connector							
AWM-1700	Waverider Compatible Male Crimp	195-Series, RG58	4.19	4.02	3.85	3.56	3.14
RoHS Shrouded SMA Connector							
ASM-1714	Shrouded SMA Male Right Angle Crimp	195-Series, RG58	3.49	3.35	3.21	2.97	2.62
RoHS SMA Nano Connector							
ASNP-1100	SMA Nano-Plug Crimp	100-Series	4.19	4.02	3.85	3.56	3.14
RoHS Miscellaneous Coaxial Connectors/Terminator							
ANM-TERM1	N-Male 50 Ohm Terminator 0-60 GHz		7.99	7.67	7.35	6.79	5.99
ANF-4000	N-Female Panel Mount 4-Hole, 1 in. Flange Solder Connector		3.69	3.54	3.39	3.14	2.77
ANF-1A18	RG6 N-Female Crimp		3.49	3.35	3.21	2.97	2.62
ANM-1A18	RG6 N-Male Crimp		3.49	3.35	3.21	2.97	2.62
ARTP-1A10	RG6 RP-TNC Plug		3.15	3.02	2.90	2.68	2.36
ARSJ-4000	RP-SMA Jack Panel Mount 4-Hole 1" Flange		3.49	3.35	3.21	2.97	2.62
RoHS Strain Relief Cable Glands							
ASR-PG11	PG11 Strain Relief Cable Gland		3.99	3.83	3.67	3.39	2.99
ASR-PG13	PG13.5 Strain Relief Cable Gland		3.99	3.83	3.67	3.39	2.99
ASR-PG16	PG16 Strain Relief Cable Gland		3.99	3.83	3.67	3.39	2.99



Most Connectors are sold in 10-Packs. Adapters are sold individually.



Item #	Description	1-9	10-24	25-99	100-249	250-499
RoHS BNC Test Leads and Adapters - Your Most Useful Laboratory Accessory Items						
Here's an opportunity to purchase quality test lead and adapter accessories for your lab. For use primarily with BNC connectors and dual banana plugs which are the most popular in the lab.						
BC25	Test Cable, BNC Male / 6" Leads with Tinned Ends	3.25	2.99	2.73	2.47	2.21
BC30	Test Cable, BNC Male / 6" Leads with Banana Plugs	4.75	4.37	3.99	3.61	3.23
BC40	Test Cable, BNC Male / 6" Leads with Test Clips	4.95	4.55	4.16	3.76	3.37
BC50	Test Cable, BNC Male / 6" Leads with Alligator Clips	4.75	4.37	3.99	3.61	3.23
BC55	Test Cable, BNC Female / 6" Leads with Tinned Ends	3.25	2.99	2.73	2.47	2.21
BC60	Test Cable, BNC Female / 6" Leads with Banana Plugs	4.75	4.37	3.99	3.61	3.23
BC70	Test Cable, BNC Female / 6" Leads with Test Clips	4.95	4.55	4.16	3.76	3.37
BC80	Test Cable, BNC Female / 6" Leads with Alligator Clips	4.75	4.37	3.99	3.61	3.23
BC2720	Test Adapter, BNC Male / Dual Binding Posts	5.45	5.01	4.58	4.14	3.71
BC2730	Test Adapter, BNC Female / Dual Binding Posts	5.45	5.01	4.58	4.14	3.71
BC2710	Test Adapter, BNC Female / Dual Banana Plugs	4.95	4.55	4.16	3.76	3.37

RoHS Solder Cup Banana Plugs - Red or Black, Accepts up to 16 AWG Wires

BC030R	Solder Type Banana Plug, Red	1.35	1.24	1.13	1.03	0.92
BC030B	Solder Type Banana Plug, Black	1.35	1.24	1.13	1.03	0.92

RoHS Coaxial Test Cables - With BNC and Dual Banana Plugs, Choice of Lengths

These test cables use the most popular 50 Ohm RG58C coaxial cable. Choice of two series as shown.

BCC58C-1	Test Cable, BNC Male / Dual Banana, 1.0 ft	14.50	13.92	13.34	12.76	12.18
BCC58C-2	Test Cable, BNC Male / Dual Banana, 2.0 ft	15.25	14.64	14.03	13.42	12.81
BCC58C-3	Test Cable, BNC Male / Dual Banana, 3.0 ft	16.00	15.36	14.72	14.08	13.44
BCC58C-4	Test Cable, BNC Male / Dual Banana, 4.0 ft	16.75	16.08	15.41	14.74	14.07
BCC58C-5	Test Cable, BNC Male / Dual Banana, 5.0 ft	17.50	16.80	16.10	15.40	14.70
BCB58C-1	Test Cable, Dual Banana / Dual Banana, 1.0 ft	14.50	13.92	13.34	12.76	12.18
BCB58C-2	Test Cable, Dual Banana / Dual Banana, 2.0 ft	15.25	14.64	14.03	13.42	12.81
BCB58C-3	Test Cable, Dual Banana / Dual Banana, 3.0 ft	16.00	15.36	14.72	14.08	13.44
BCB58C-4	Test Cable, Dual Banana / Dual Banana, 4.0 ft	16.75	16.08	15.41	14.74	14.07
BCB58C-5	Test Cable, Dual Banana / Dual Banana, 5.0 ft	17.50	16.80	16.10	15.40	14.70

RoHS Dual Banana Plug - Easy Connection to Coaxial Cable or Discrete Wires

This dual banana plug allows easy connection to coaxial cable with an outer diameter of .220 in. or less. Screw terminals allow termination without soldering. Gold plated.

BP125209	Dual Banana Plug for Coax or Wires	2.95	2.71	2.48	2.24	2.01
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BNC/Banana/Binding Post Adapter Kit - What You Need to Mate Any Test Cable

This kit contains 1 each BNC female and BNC male to dual binding posts, BNC female to dual banana plugs and a pair of BNC gender changers M-M and F-F. Provided in a 7 compartment plastic box (2 spares). Assortment price represents a cost savings over the purchase of individual units. Save even more when purchased in multiple lots.

BC2700K	5 Piece BNC / Dual Banana Adapter Kit	19.95	18.75	17.56	16.36	15.16
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Tip

What are the differences between various laboratory test leads?

The common feature of test leads used in a laboratory environment is ease of connection and disconnection since most attachments are temporary in nature and are often being changed. Below is a list of some of the most common test leads found in a lab.



Banana Plugs

Banana Plugs

A high-quality plug and socket for speaker cable. The banana plug is pushed into the socket, the spring-like protrusions on the prong make a snug fit.



Alligator Clips

Alligator Clips

A spring-loaded clip with serrated jaws, often used to make temporary electrical connections.



Test Clips

Test Clips

Used in many probing applications, test clips can be quickly attached to bare wires or other conducting features.



Binding Posts

Binding Posts

Typically used in an audio application, it features a threaded collar for gripping bare wires.



BNC Connector

BNC Connector

A commonly used coaxial interface for audio, video and networking applications that provides a secure connection. Coupling is achieved utilizing mating post on the jack and a spring loaded coupling nut on the plug. A simple quarter turn of the coupling nut completes the mating process.



Item #	Description	1-9	10-24	25-99	100-249	250-499
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Twinaxial BNC Cables - Feature Polarized/Stepped Keyway and Crimp Design

This Twin BNC cable series accommodates the need for low level signal patching and balanced line applications. Fittings have polarized, stepped keyways that look like, but do not match traditional BNC coaxial connectors. Twin BNC connectors are constructed of machined brass with a non-tarnish nickel finish and gold plated contacts.

Twinaxial	78 Ohm Impedance	- Center Conductors: 20 (7x28) AWG tinned copper - Shielding: Tinned copper braid + foil (100% coverage) - Insulation: Polyethylene - Jacket: Blue PVC - Operating Temperature: -20°C - +80°C	NOMINAL ATTENUATION		
			MHz	db/100 ft	db/100m

CTC-1	78 Ohm Twinaxial Cable, Twin BNC Male / Male, 1.0 ft	44.00	42.24	40.48	38.72	36.96
CTC-2	78 Ohm Twinaxial Cable, Twin BNC Male / Male, 2.0 ft	45.00	43.20	41.40	39.60	37.80
CTC-3	78 Ohm Twinaxial Cable, Twin BNC Male / Male, 3.0 ft	47.00	45.12	43.24	41.36	39.48
CTC-5	78 Ohm Twinaxial Cable, Twin BNC Male / Male, 5.0 ft	51.00	48.96	46.92	44.88	42.84
CTC-7.5	78 Ohm Twinaxial Cable, Twin BNC Male / Male, 7.5 ft	55.00	52.80	50.60	48.40	46.20
CTC-10	78 Ohm Twinaxial Cable, Twin BNC Male / Male, 10.0 ft	59.00	56.64	54.28	51.92	49.56

RoHS Stainless Steel Wall Plates - Unbreakable and Offer An Enhanced Appearance

Wall plates that accept a variety of termination devices are found to be useful by many installers. Wall plates also provide a more organized accommodation to your day-to-day cabling needs. Furthermore, stainless steel gives a commercial appearance that is sometimes more acceptable in today's business office environment. The variety we offer fills most installation needs.

WPC1	Stainless Wall Plate, One 0.5" dia. D-hole	1.95	1.83	1.72	1.60	1.48
WPC2	Stainless Wall Plate, Two 0.5" dia. D-holes	1.95	1.83	1.72	1.60	1.48
WPC10	Stainless Wall Plate, One 0.75" dia. D-hole	1.95	1.83	1.72	1.60	1.48
WPC11	Stainless Wall Plate, One Offset 0.75" dia. D-hole	1.95	1.83	1.72	1.60	1.48
WPC12	Stainless Wall Plate, Two 0.75" dia. D-holes	1.95	1.83	1.72	1.60	1.48
WPD3	Stainless Wall Plate, One DB25 Opening and One 0.5" dia. D-hole	2.60	2.44	2.29	2.13	1.98

RoHS Panel Mount Receptacle Connectors

These series of connectors are intended for panel mounting with discrete receptacle terminations. Offered in BNC, RCA and Type N interfaces with various mounting configurations.

BAC1501	BNC Male Bulkhead	2.95	2.71	2.48	2.24	2.01
BAC1503	BNC Female Bulkhead	2.95	2.71	2.48	2.24	2.01
BAC930	BNC Female Bulkhead	5.95	5.47	5.00	4.52	4.05
BAC440	RCA Female Insulated Bulkhead	3.95	3.63	3.32	3.00	2.69
BAC260	BNC Female, 4 Hole Flange	2.95	2.71	2.48	2.24	2.01
BAN113	Type N Female, 4 Hole Flange	4.95	4.55	4.16	3.76	3.37
BAC70A	BNC Female Bulkhead	2.95	2.71	2.48	2.24	2.01
BAC16	SMA Female Bulkhead	4.95	4.55	4.16	3.76	3.37

Deluxe Coaxial Adapter Kit

This deluxe adapter kit features a universal coupling which allows interchangeable connections between all 30 individual interfaces resulting in 108 possible combinations. Supplied in a zippered storage case that is ideal for portable use.

BAK300	Deluxe Coaxial Adapter Kit	125.00	120.00	115.00	110.00	105.00
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Premium Coaxial Adapter Kit

L-com's premium adapter kit features a universal coupling which allows interchangeable connections between all 40 individual interfaces resulting in 192 possible combinations. Supplied in a zippered storage case that is ideal for portable use.

BAK400	Premium Coaxial Adapter Kit	150.00	144.00	138.00	132.00	126.00
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SMA Interseries Adapter Kit

This handy adapter kit offers a super value versus buying parts separately. Kit contains SMA interseries adapters all stored in a multi compartment storage case. Adapters are machined and plated for corrosion resistance and long life.

BA1200K	SMA Interseries Adapter Kit	49.95	46.95	43.96	40.96	37.96
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BNC Within Series Adapter Kit

This useful adapter kit offers a super value to buying parts separately. Kit includes various BNC adapters as well as 3 port tees and right angle configurations all stored in a multi compartment storage case. Adapters are machined and plated for corrosion resistance and long life.

BA1700K	BNC Adapter Kit	39.95	37.55	35.16	32.76	30.36
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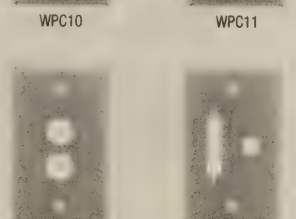
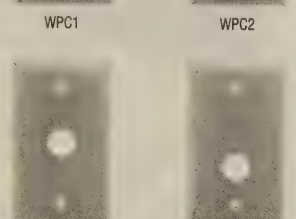
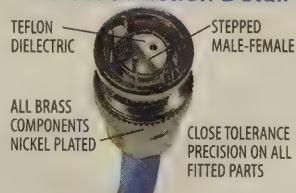
BNC Interseries Adapter Kit

This handy adapter kit offers a super value versus buying parts separately. This kit includes various BNC interseries adapters all stored in a multi compartment storage case. Adapters are machined and plated for corrosion resistance and long life.

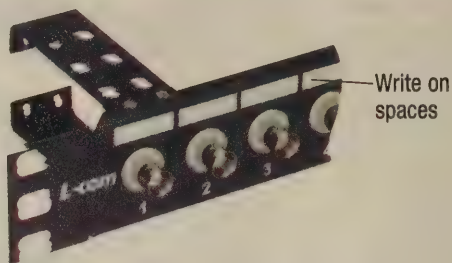
BA1800K	BNC Interseries Adapter Kit	39.95	37.55	35.16	32.76	30.36
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CTC Construction Detail

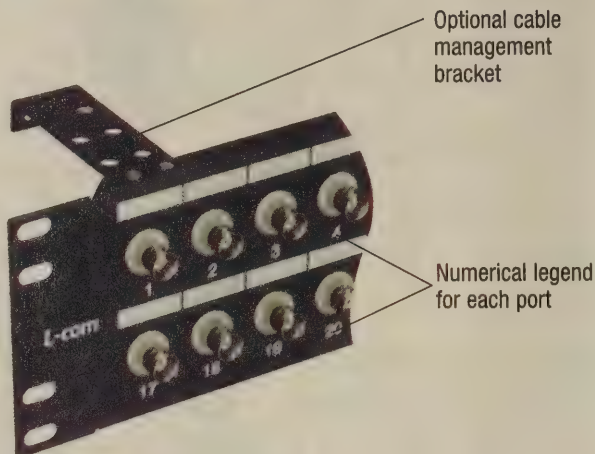


"I wanted to comment on the e-mail newsletter I received today "L-com Newsletter - Fiber Cable Promotion and New Additions". Included was a link - "Click here to see a video about Fiber Connector Types". This video was EXCELLENT. It was short, it was specific, and it was educational." - Alfred M.



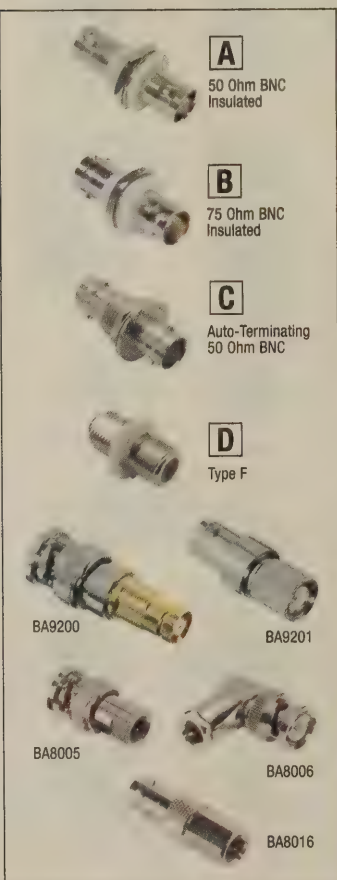
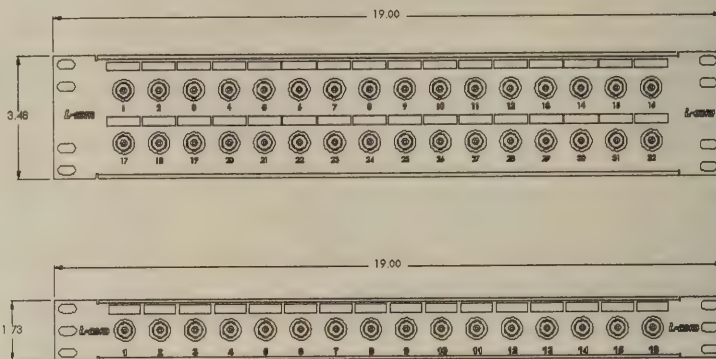
Write on
spaces

L-com offers system designers a complete selection of panel configurations for coaxial connections. Each panel features a convenient write-on space above and numerical legends below each port. This allows users a fast and simple way to identify ports for their equipment. Our panels are made with 16-gauge cold-rolled steel and finished with a durable Black powder coat. An optional cable management bracket on the rear of the panel gives a secure place to tie off cable bundles and prevent connector fatigue. Panels are available with Type F or BNC style couplers.



Optional cable
management
bracket

Numerical legend
for each port



A

50 Ohm BNC
Insulated

B

75 Ohm BNC
Insulated

C

Auto-Terminating
50 Ohm BNC

D

Type F

Item #	Code	Description	Color	1-9	10-24	25-99	100-249	250-499
RoHS 1.75" and 3.5" Coaxial Rack Panels - Populated								
PR175B16BLK	A	1.75" Panel, 16 BNC Couplers, 50 Ohm Insulated	Black	99.95	91.95	83.96	75.96	CALL
PR35B32BLK	A	3.50" Panel, 32 BNC Couplers, 50 Ohm Insulated	Black	179.95	165.55	151.16	136.76	CALL
PR175B1675BLK	B	1.75" Panel, 16 BNC Couplers, 75 Ohm Insulated	Black	109.95	101.15	92.36	83.56	CALL
PR35B3275BLK	B	3.50" Panel, 32 BNC Couplers, 75 Ohm Insulated	Black	209.95	193.15	176.36	159.56	CALL
PR175B16CMB	A	1.75" Panel, 16 BNC Couplers, Insulated with Cable Minder	Black	119.95	110.35	100.76	91.16	CALL
PR35B32CMB	A	3.50" Panel, 32 BNC Couplers, Insulated with Cable Minder	Black	199.95	183.95	167.96	151.96	CALL
PR175BX16GBLK	C	1.75" Panel, 16 BNC Auto-Terminating Couplers, 50 Ohm	Black	129.00	118.68	108.36	98.04	CALL
PR35BX32GBLK	C	3.50" Panel, 32 BNC Auto-Terminating Couplers, 50 Ohm	Black	229.95	211.55	193.16	174.76	CALL
PR175F16	D	1.75" Panel, 16 Type F Couplers, Insulated	Black	79.95	73.55	67.16	60.76	CALL
PR35F32	D	3.50" Panel, 32 Type F Couplers, Insulated	Black	99.95	91.95	83.96	75.96	CALL

RoHS 1.6/5.6 to BNC Adapters - For Conversion to the European Standard

These machined adapters are great for converting standard BNC terminations to 1.6/5.6 terminations which are common in other areas of the world.

BA9200	Coaxial Adapter, BNC Male / 1.6/5.6 Female Adapter	7.95	7.47	7.00	6.52	6.04
BA9201	Coaxial Adapter, BNC Female / 1.6/5.6 Male Adapter	7.95	7.47	7.00	6.52	6.04

RoHS FME to BNC Interseries Coaxial Adapters - Useful in Cellular Applications

Many cellular communication devices utilize the FME connector on coaxial antenna lines. L-com offers a selection of highest quality components utilizing machined brass with nickel plated surfaces and gold plated pins.

BA8005	Coaxial Adapter, FME Male / BNC Male	3.95	3.71	3.48	3.24	3.00
BA8006	Coaxial Adapter, FME Male / 90° BNC Male	4.95	4.65	4.36	4.06	3.76
BA8016	Coaxial Adapter, FME Male / BNC Female	4.95	4.65	4.36	4.06	3.76



Tip What is impedance?

Impedance is a measurement of opposition to the flow of current within a cable. Two of the most common impedance values used in coaxial cable are 50 Ohms and 75 Ohms. In twisted pair cable, common impedance values are 100 and 120 Ohms.



T1 Communication Systems - A Brief Primer

The T1 line is the most widely used switched digital communication circuit used in America today. T1s are used for connecting phone and computer networks to public switched network infrastructures. Each T1 is equivalent to 24 64Kbps communication channels. Each channel utilizes two 100 Ohm shielded twisted pairs; one for transmit (TX) and one for receive (RX). Some T1 equipment uses two 75 Ohm coaxial connections for the TX and RX channels. Baluns are used to bridge the gap between 75 Ohm coaxial and 100 Ohm twisted pair.

Note: An E1 circuit is the European equivalent of the American T1. The infrastructure uses 120 Ohm shielded twisted pairs so 75/120 baluns would be used in European applications.

T1 - E1 Differences

	NAME	#64Kbps CHANNELS	TWISTED PAIR TYPE	COAXIAL TYPE
USA Standard	T1	24	2 100 Ohms Shielded Twisted Pair (RJ45s Typical)	75 Ohms (BNC Typical)
European Standard	E1	32	2 120 Ohms Shielded Twisted Pair (RJ45s Typical)	75 Ohms (BNC, 1.6/5.6 Typical)

Item #	Description	List Price
--------	-------------	------------

RoHS 75 to 100 or 120 Ohm Transmission Baluns for Telecommunication Applications

75/100 and 75/120 Ohm impedance matching baluns allow users to use inexpensive shielded twisted pair cabling in place of expensive coaxial cabling. They are especially useful in telecommunication applications for patching at the distribution frame. Units meet CCITT Recommendation G703 and are great for American or European applications. Choose from multiple coaxial connector types as well as Krone IDC or compression IDC termination styles.

ACK2010	75 to 120 Ohm Balun, 1.6/5.6 Plug (Screw Type) / Krone IDC	26.00
ACK3010	75 to 120 Ohm Balun, 1.6/5.6 Jack / Krone IDC	26.00
ACK8010	75 to 120 Ohm Balun, BNC Plug / Krone IDC	26.00
ACK9010	75 to 120 Ohm Balun, BNC Bulkhead Jack / Krone IDC	26.00
ACC2060	75 to 120 Ohm Balun, 1.6/5.6 Plug (Screw Type) / Compression IDC	33.00
ACC3060	75 to 120 Ohm Balun, 1.6/5.6 Jack / Compression IDC	33.00
ACC8060	75 to 120 Ohm Balun, BNC Plug / Compression IDC	33.00

Mini Transmission Balun Electrical Specifications

- Impedance Match: 75 to 100 or 120 Ohms $\pm$ 10 measured at 70 MHz.
- Insertion Loss: <0.9 dB, range measured 0.2 MHz to 70 MHz.
- Return Loss: <15 dB, range measured 1 MHz to 70 MHz.

75 to 100/120 Ohm E1/T1 G.703 Dual Balun - Two BNC Jacks to RJ45

These units allow bi-directional connectivity between coaxial and twisted pair E1/T1 cabling. Dual 75 Ohm coaxial connections connect to shielded 120 Ohm RJ45 jack for easy connecting to terminated UTP/STP cabling.

ACD201-US	Dual BNC Jack / RJ45 Balun, 75 to 100 Ohm	59.95
ACD201	Dual BNC Jack / RJ45 Balun, 75 to 120 Ohm	59.95

RoHS E1/T1 G.703 Balun Panel - Twenty Dual Baluns in a 19" Rack Panel

The ACD2200 series is an innovative idea for converting multiple E1/T1 connections from 75 Ohm coaxial to 120 Ohm twisted pair. Each dual balun circuit is built into a balun card which is then mounted to the rack panel. Balun cards are available with dual BNC connectors and one shielded RJ45 connector. Extra cards can be purchased for easy replacement in the future.

ACD2201-US	20 Port Balun Panel, Dual BNC Jack / RJ45, 75 to 100 Ohm	895.00
ACD2201	20 Port Balun Panel, Dual BNC Jack / RJ45, 75 to 120 Ohm	895.00
ACD2201-USCARD	Balun Card, Dual BNC Jack / RJ45, 75 to 100 Ohm	50.00
ACD2201-CARD	Balun Card, Dual BNC Jack / RJ45, 75 to 120 Ohm	59.95



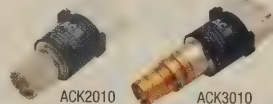
Tip What is a balun?

The term balun (pronounced "bal-un") is derived from the function of the passive device that converts between a BALANCED and UNBALANCED electrical signal. Common types of baluns convert 100 Ohm twisted pair (balanced) to 75 Ohm coaxial (unbalanced).

ACK SERIES KRONE IDC TYPE



Terminate wires with punch down tool



ACK2010

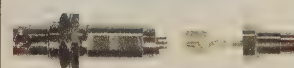
ACK3010



ACK8010

ACK9010

ACC SERIES COMPRESSION IDC TYPE



Terminate wires with wrench or pliers

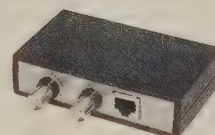
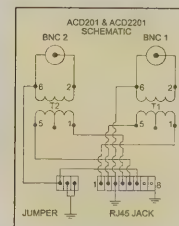
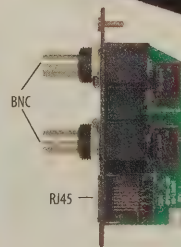


ACC2060

ACC3060



ACC8060

ACD201
E1/T1 Dual BNC
Jack to RJ45ACD2201
E1/T1 Balun
Rack Panel

ACD2201-CARD



Fiber Optic Tutorial

What are Fiber Optic Cables?

Fiber optic cables consist of a glass core and cladding, buffer coating, Kevlar strength members and a protective outer jacket. Fiber optic cables use light pulses as opposed to electrical signals to send information.

How are Fiber Optic Cables used?

Fiber optic cables can be plugged into communications equipment and patch panels to provide a physical connection to a network or device.

Where are Fiber Optic Cables used?

Fiber optic cables are used by commercial business, governments, the military and many other industries for myriad applications involving the transmission of voice, video and data.

Fiber Optic Cabling Terms

Absorption: One cause of attenuation where light signal is absorbed into the glass during transmission.

Attenuation: Optical loss of power. Attenuation is measured in dB loss per length of cable. Attenuation is usually caused by absorption and scattering.

Attenuator: A device used to reduce the power of an optical signal.

Back Reflection: A measure of the light reflected off the polished end of a fiber connector. Measured in negative dB relative to incident power.

Bandwidth: The range of signal frequencies that a fiber optic cable will transmit.

Buffer: The protective coating over the fiber.

Insertion Loss: The attenuation caused by the insertion of a device (such as a splice or connection point) to a cable.

Loss Budget: The maximum amount of power that is allowed to be lost per optical link.

Multimode: A type of fiber optic cable where the core diameter is much larger than the wavelength of light transmitted. Two common multimode fiber types are 50/125 and 62.5/125.

Return Loss: The ratio of the power launched into a cable and the power of the light returned down the fiber. This measurement is expressed in positive decibel units (dB). A higher number is better. Return Loss = $10 \log \left(\frac{\text{incident power}}{\text{returned power}} \right)$.

Scattering: A second cause of attenuation. Scattering occurs when light collides with individual atoms in the glass.

Singlemode: A type of fiber with a small core that allows only one mode of light to propagate. A common singlemode type is 9/125.

Wavelength: A means of measuring light color. Expressed in nanometers (nm).

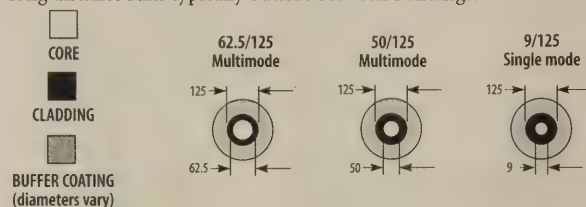


For more useful information go to....
www.L-com.com/Resources

A Quick Lesson In Optical Transmission

Where copper cabling uses electricity to transmit signals from one end to another, fiber optics use light pulses to accomplish the same purpose. The fiber cable is made of a transparent glass core surrounded by a mirror like covering called cladding. Light passes through the cable, bouncing off the cladding until it reaches the other end of the fiber channel - this is called total internal reflection.

In today's high speed networks, Graded Index Multimode fiber or Step Index Single mode fiber is used to improve light transmission over long distances. Multimode fiber has a larger core and is typically used in short runs within buildings. Single mode fiber has a smaller core and is used in long distance runs typically outside between buildings.

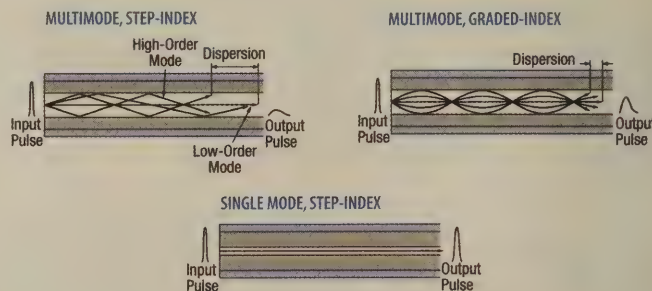


Fiber Core Sizes

Fiber specifications list the core and cladding diameters as a ratio. The top example shows the ratio of core to cladding as 62.5/125 microns. Below, the ratio is 9/125 microns. Multimode fiber is commonly 62.5/125 or 50/125 micron, single mode fiber is commonly 9/125 micron.

Fiber Glass Types

Stepped Index Fiber relies on the reflection of light whereas in Graded Index Fiber, the properties of the glass are changed in layers to "bend" the light as it travels down the cable. This reduces modal dispersion within the cable allowing for higher transmission rates.



How do fiber optics work?



See The Video

www.L-com.com/videos/A15

Learn all about fiber connectors



See The Video

www.L-com.com/Videos/A21

	Connector Type	Coupling Type	Fiber Type	Polish	Number Fibers	Typical Applications	Comment
	ST	Twist On	Single mode/Multimode	PC, UPC	1	LANs	Keyed
	FC	Screw On	Single mode/Multimode	PC, UPC, APC	1	Datacom, Telecommunications	Keyed
	SC	Snap On	Single mode/Multimode	PC, UPC, APC	1	CATV, Test Equipment	Keyed
	LC	Snap On RJ45 Style	Single mode/Multimode	PC, UPC, APC	1	Gigabit Ethernet, Video Multimedia	Small Form Factor (SFF)
	MU	Push/Pull	Single mode/Multimode	PC, UPC, APC	1	Medical, Military	Small Form Factor (SFF)
	MT-RJ	Snap On RJ45 Style	Single mode/Multimode	N/A	2	Gigabit Ethernet, Asynchronous Transmission Mode (ATM)	One of Mating Connectors must have Alignment Pins
	MPO (MTP)	Push/Pull	Single mode/Multimode	N/A	4, 8, 12, 16, 24	Active Device Transceiver, Interconnections for O/E Modules	One of Mating Connectors must have Alignment Pins

Bulk Fiber Optic Cabling - Sold by the Meter for Indoor and Outdoor Use

L-com offers the most popular types of Simplex, Duplex, Breakout and Distribution cable. All available from stock with a 25 meter (50 meters for 10 Gig rated) minimum. Other cabling types are available by request. Jacket color of bulk cable may vary. **Note:** Bulk cable custom lengths are non-returnable.

NOTE:
Cable measurements in meters. 1m = 3.28 ft.
Custom lengths are non-returnable.

SIMPLEX CABLE

- Number of Fibers: 1
- Jacket Type: OFNR rated
- Operating Temperature: -20°C - +70°C

Simplex cable is commonly used for short point to point patching.

RoHS Item

FOB625S-M
FOB500S-M
FOBSNGS-M

Description

1 meter interval 62.5/125 bulk simplex cable
1 meter interval 50/125 bulk simplex cable
1 meter interval 9/125 bulk simplex cable

Price/m

0.45
0.45
0.45

Simplex Cable



DUPLEX ZIPCORD

- Number of Fibers: 2
- Jacket Type: Riser - OFNR rated
- Operating Temperature: -20°C - +70°C
- Zipcord can easily be split apart to create 2 simplex cords
- Indoor Use

Zipcord is the common choice for building short duplex fiber runs or patch cords. It is the most flexible choice.

RoHS Item

FOB625Z-M
FOB500Z-M
FOBSNGZ-M

Description

1 meter interval 62.5/125 bulk duplex zipcord
1 meter interval 50/125 bulk duplex zipcord
1 meter interval 9/125 bulk duplex zipcord

Price/m

0.95
0.95
0.75

10 Gig Rated 50/125 Duplex Zipcord

FOB500Z-10G-M

1 meter interval 50/125 bulk duplex zipcord

2.25

Duplex Zipcord



BREAKOUT CABLE

- Number of Fibers: 2, 4, 6, 12. Other fiber counts available by custom request
- Jacket: Plenum - OFNP rated
- Operating Temperature: -40°C - +85°C
- Indoor or Outdoor Use

Breakout cable is the most user friendly because each fiber has it's own jacket and aramid strength elements. Due to this, each fiber is extremely strong and rugged. Breakout fiber is also very stiff.

RoHS Item

FOB625B2-M
FOB625B4-M
FOB625B6-M
FOB625B12-M
FOB500B2-M
FOB500B4-M
FOB500B6-M
FOB500B12-M
FOBSNGB2-M
FOBSNGB4-M
FOBSNGB6-M
FOBSNGB12-M

Description

1 meter interval 2 count 62.5/125 bulk breakout cable
1 meter interval 4 count 62.5/125 bulk breakout cable
1 meter interval 6 count 62.5/125 bulk breakout cable
1 meter interval 12 count 62.5/125 bulk breakout cable
1 meter interval 2 count 50/125 bulk breakout cable
1 meter interval 4 count 50/125 bulk breakout cable
1 meter interval 6 count 50/125 bulk breakout cable
1 meter interval 12 count 50/125 bulk breakout cable
1 meter interval 2 count 9/125 bulk breakout cable
1 meter interval 4 count 9/125 bulk breakout cable
1 meter interval 6 count 9/125 bulk breakout cable
1 meter interval 12 count 9/125 bulk breakout cable

Price/m

2.50
4.00
6.00
12.00
2.50
4.00
6.00
12.00
2.50
3.00
4.00
8.50

10 Gig Rated 50/125 Breakout Cable, 50 Meter Minimum

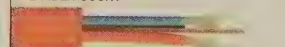
FOB501B2-M
FOB501B4-M
FOB501B6-M
FOB501B12-M

1 meter interval 2 count 50/125 bulk breakout cable
1 meter interval 4 count 50/125 bulk breakout cable
1 meter interval 6 count 50/125 bulk breakout cable
1 meter interval 12 count 50/125 bulk breakout cable

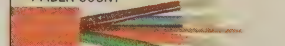
5.25
7.45
9.95
16.99

Breakout Cable

2 FIBER COUNT



4 FIBER COUNT



6 FIBER COUNT



12 FIBER COUNT



DISTRIBUTION CABLE

- Number of Fibers: 6, 12, 24. Other fiber counts available by custom request
- Jacket: Plenum - OFNP rated
- Operating Temperature: -20°C - +85°C
- Indoor or Outdoor Use

Distribution cable is more compact and flexible since each fiber is only protected by the 900 micron buffer.

RoHS Item

FOB625D6-M
FOB625D12-M
FOB625D24-M
FOB500D6-M
FOB500D12-M
FOB500D24-M
FOBSNGD6-M
FOBSNGD12-M
FOBSNGD24-M

Description

1 meter interval 6 count 62.5/125 bulk distribution cable
1 meter interval 12 count 62.5/125 bulk distribution cable
1 meter interval 24 count 62.5/125 bulk distribution cable
1 meter interval 6 count 50/125 bulk distribution cable
1 meter interval 12 count 50/125 bulk distribution cable
1 meter interval 24 count 50/125 bulk distribution cable
1 meter interval 6 count 9/125 bulk distribution cable
1 meter interval 12 count 9/125 bulk distribution cable
1 meter interval 24 count 9/125 bulk distribution cable

Price/m

3.95
6.00
13.95
3.95
6.00
13.95
2.50
6.95
9.95

10 Gig Rated 50/125 Distribution Cable, 50 Meter Minimum

FOB501D6-M
FOB501D12-M
FOB501D24-M

1 meter interval 6 count 50/125 bulk distribution cable
1 meter interval 12 count 50/125 bulk distribution cable
1 meter interval 24 count 50/125 bulk distribution cable

9.45
15.25
25.95

Distribution Cable

6 FIBER COUNT



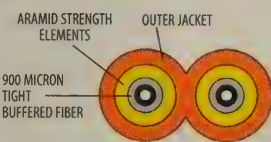
12 FIBER COUNT



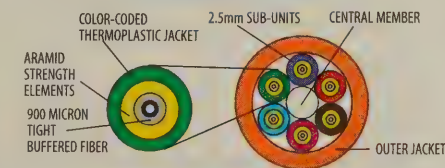
24 FIBER COUNT



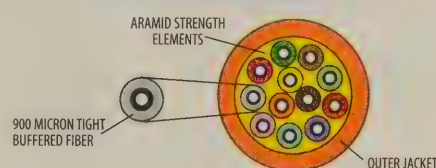
Duplex Zipcord



Breakout Cable



Distribution Cable



Custom Bulk Cable Types

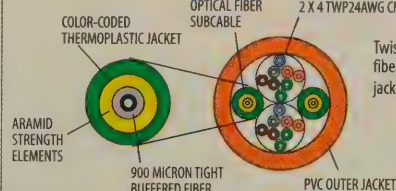
Many other types of bulk fiber optic cable are available. Just call your L-com sales representative with your requirements and we will do our best to meet your needs.

Armored Cable



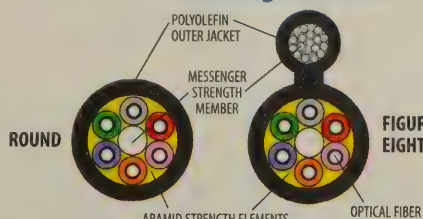
Similar to distribution cable with internal armoring. Suitable for direct burial. "Rodent proof".

Composite Cable



Twisted pair and fiber in one outer jacket.

Messenger Cables



Primarily used for outdoor aerial applications. The round configuration is useful in many harsh environment conditions.



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CONNECTOR LEGEND

ST Connector

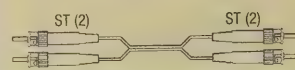
SC Connector

FC Connector

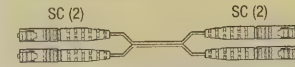
Clipped LC Connector

MT-RJ Connector

FODSTC-XX
• Dual ST Connectors



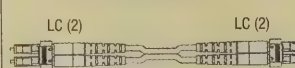
FODSC-XX
• Dual SC Connectors



FODFC-XX
• Dual FC Connectors



FODLC-CL-XX
• Dual LC Clipped Connectors



You can have custom fiber cables
in as little as 48 hours.
CALL 1-800-343-1455 NOW!

FODMTRJ-XX
• MT-RJ Connectors
• Dual Fiber / Single Jacket



FODMTRJP-XX
• MT-RJ Connectors
• One Connector has Pins



FODFC-LC-XX
• Dual FC and Dual LC Connectors



Item #

Description

1-9

10-24

25-99

100-249 250-499



L-com's multimode fiber optic patch cords and adapter cords utilize OFNR Riser Rated jackets. All cables are 100% optically tested and utilize a PC polish. Custom lengths and other connector types are available. All cable measurements are in meters. 1m = 3.28 ft.

RoHS Dual ST to Dual ST Duplex Patch Cord, Multimode Fiber with OFNR Jacket

Item #	Description	1-9	10-24	25-99	100-249	250-499
FODSTC-01	MM Fiber Cable, Dual ST / Dual ST, 1.0m	16.00	15.36	14.72	13.60	12.00
FODSTC-02	MM Fiber Cable, Dual ST / Dual ST, 2.0m	17.25	16.56	15.87	14.66	12.94
FODSTC-03	MM Fiber Cable, Dual ST / Dual ST, 3.0m	18.50	17.76	17.02	15.73	13.88
FODSTC-04	MM Fiber Cable, Dual ST / Dual ST, 4.0m	19.75	18.96	18.17	16.79	14.81
FODSTC-05	MM Fiber Cable, Dual ST / Dual ST, 5.0m	21.00	20.16	19.32	17.85	15.75
FODSTC-10	MM Fiber Cable, Dual ST / Dual ST, 10.0m	27.25	26.16	25.07	23.16	20.44
FODSTC-15	MM Fiber Cable, Dual ST / Dual ST, 15.0m	33.50	32.16	30.82	28.48	25.13
FODSTC-20	MM Fiber Cable, Dual ST / Dual ST, 20.0m	39.75	38.16	36.57	33.79	29.81
FODSTC-25	MM Fiber Cable, Dual ST / Dual ST, 25.0m	46.00	44.16	42.32	39.10	34.50
FODSTC-30	MM Fiber Cable, Dual ST / Dual ST, 30.0m	52.25	50.16	48.07	44.41	39.19
FODSTC-35	MM Fiber Cable, Dual ST / Dual ST, 35.0m	58.50	56.16	53.82	49.73	43.88
FODSTC-40	MM Fiber Cable, Dual ST / Dual ST, 40.0m	64.75	62.16	59.57	55.04	48.56
FODSTC-45	MM Fiber Cable, Dual ST / Dual ST, 45.0m	71.00	68.16	65.32	60.35	53.25

RoHS Dual SC to Dual SC Duplex Patch Cord, Multimode Fiber with OFNR Jacket

Item #	Description	1-9	10-24	25-99	100-249	250-499
FODSC-01	MM Fiber Cable, Dual SC / Dual SC, 1.0m	16.00	15.36	14.72	13.60	12.00
FODSC-02	MM Fiber Cable, Dual SC / Dual SC, 2.0m	17.75	17.04	16.33	15.09	13.31
FODSC-03	MM Fiber Cable, Dual SC / Dual SC, 3.0m	18.50	17.76	17.02	15.73	13.88
FODSC-04	MM Fiber Cable, Dual SC / Dual SC, 4.0m	19.75	18.96	18.17	16.79	14.81
FODSC-05	MM Fiber Cable, Dual SC / Dual SC, 5.0m	21.00	20.16	19.32	17.85	15.75
FODSC-10	MM Fiber Cable, Dual SC / Dual SC, 10.0m	27.25	26.16	25.07	23.16	20.44
FODSC-15	MM Fiber Cable, Dual SC / Dual SC, 15.0m	33.50	32.16	30.82	28.48	25.13
FODSC-20	MM Fiber Cable, Dual SC / Dual SC, 20.0m	39.75	38.16	36.57	33.79	29.81
FODSC-25	MM Fiber Cable, Dual SC / Dual SC, 25.0m	46.00	44.16	42.32	39.10	34.50
FODSC-30	MM Fiber Cable, Dual SC / Dual SC, 30.0m	52.25	50.16	48.07	44.41	39.19
FODSC-35	MM Fiber Cable, Dual SC / Dual SC, 35.0m	58.50	56.16	53.82	49.73	43.88
FODSC-40	MM Fiber Cable, Dual SC / Dual SC, 40.0m	64.75	62.16	59.57	55.04	48.56
FODSC-45	MM Fiber Cable, Dual SC / Dual SC, 45.0m	71.00	68.16	65.32	60.35	53.25

RoHS Dual FC to Dual FC Duplex Patch Cord, Multimode Fiber with OFNR Jacket

Item #	Description	1-9	10-24	25-99	100-249	250-499
FODFC-01	MM Fiber Cable, Dual FC / Dual FC, 1.0m	18.75	18.00	17.25	15.94	14.06
FODFC-02	MM Fiber Cable, Dual FC / Dual FC, 2.0m	20.00	19.20	18.40	17.00	15.00
FODFC-03	MM Fiber Cable, Dual FC / Dual FC, 3.0m	21.25	20.40	19.55	18.06	15.94
FODFC-04	MM Fiber Cable, Dual FC / Dual FC, 4.0m	22.50	21.60	20.70	19.13	16.88
FODFC-05	MM Fiber Cable, Dual FC / Dual FC, 5.0m	23.75	22.80	21.85	20.19	17.81

RoHS Dual LC to Dual LC Clipped Duplex Patch Cord, Multimode Fiber with OFNR Jacket

Item #	Description	1-9	10-24	25-99	100-249	250-499
FODLC-CL-01	MM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 1.0m	20.00	19.60	19.20	18.80	18.40
FODLC-CL-02	MM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 2.0m	21.00	20.58	20.16	19.74	19.32
FODLC-CL-03	MM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 3.0m	22.00	21.56	21.12	20.68	20.24
FODLC-CL-04	MM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 4.0m	23.00	22.54	22.08	21.62	21.16
FODLC-CL-05	MM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 5.0m	24.00	23.52	23.04	22.56	22.08
FODLC-CL-10	MM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 10.0m	29.00	28.42	27.84	27.26	26.68

RoHS MT-RJ to MT-RJ Duplex Patch Cord - Multimode Fiber with OFNR Jacket

Note: These MT-RJ connectors do not utilize alignment pins.

Item #	Description	1-9	10-24	25-99	100-249	250-499
FODMTRJ-01	MM Fiber Cable, MT-RJ / MT-RJ, 1.0m	16.00	15.36	14.72	13.60	12.00
FODMTRJ-02	MM Fiber Cable, MT-RJ / MT-RJ, 2.0m	17.25	16.56	15.87	14.66	12.94
FODMTRJ-03	MM Fiber Cable, MT-RJ / MT-RJ, 3.0m	18.50	17.76	17.02	15.73	13.88
FODMTRJ-04	MM Fiber Cable, MT-RJ / MT-RJ, 4.0m	19.75	18.96	18.17	16.79	14.81
FODMTRJ-05	MM Fiber Cable, MT-RJ / MT-RJ, 5.0m	21.00	20.16	19.32	17.85	15.75

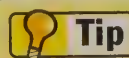
RoHS MT-RJ to MT-RJ Duplex Patch Cord with Pins - Multimode Fiber with OFNR Jacket

Note: One MT-RJ connector features alignment pins.

Item #	Description	1-9	10-24	25-99	100-249	250-499
FODMTRJP-01	MM Fiber Cable, MT-RJ / MT-RJ, 1.0m	19.00	18.24	17.48	16.15	14.25
FODMTRJP-02	MM Fiber Cable, MT-RJ / MT-RJ, 2.0m	20.25	19.44	18.63	17.21	15.19
FODMTRJP-03	MM Fiber Cable, MT-RJ / MT-RJ, 3.0m	21.50	20.64	19.78	18.27	16.13
FODMTRJP-04	MM Fiber Cable, MT-RJ / MT-RJ, 4.0m	22.75	21.84	20.93	19.34	17.06
FODMTRJP-05	MM Fiber Cable, MT-RJ / MT-RJ, 5.0m	24.00	23.04	22.08	20.40	18.00

RoHS Dual FC to Dual LC Duplex Adapter Cord, Multimode Fiber with OFNR Jacket

Item #	Description	1-9	10-24	25-99	100-249	250-499
FODFC-LC-01	MM Fiber Cable, Dual FC / Dual LC, 1.0m	27.50	26.40	25.30	23.38	20.63
FODFC-LC-02	MM Fiber Cable, Dual FC / Dual LC, 2.0m	28.75	27.60	26.45	24.44	21.56
FODFC-LC-03	MM Fiber Cable, Dual FC / Dual LC, 3.0m	30.00	28.80	27.60	25.50	22.50
FODFC-LC-04	MM Fiber Cable, Dual FC / Dual LC, 4.0m	31.25	30.00	28.75	26.56	23.44
FODFC-LC-05	MM Fiber Cable, Dual FC / Dual LC, 5.0m	32.50	31.20	29.90	27.63	24.38

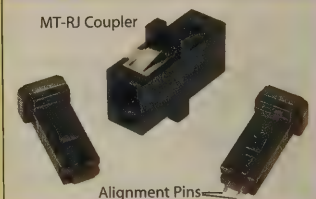


Tip

**What is the MT-RJ connector?
How does it work?**

The MT-RJ is one of the newly emerging *Small Form Factor* connectors that are becoming commonplace in the networking industry. The MT-RJ utilizes two fibers and integrates them into a single design that looks similar to a Black RJ45 modular connector. Alignment is completed through the use of two pins that mate with the connector. Transceiver jacks found on NICs and equipment typically have the pins built into them. Users need to be careful that one connector has alignment pins when mating two MT-RJ cables through a coupler.

MT-RJ Coupler



Alignment Pins

Item #	Description	1-9	10-24	25-99	100-249	250-499
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62.5/125

L-com's multimode fiber optic patch cords and adapter cords utilize OFNR Riser Rated jackets. All cables are 100% optically tested and utilize a PC polish. Custom lengths and other connector types are available. All cable measurements are in meters. 1m = 3.28 ft.

✓RoHS Dual FC to Dual ST Duplex Adapter Cord, Multimode Fiber with OFNR Jacket

FODFC-ST-01	MM Fiber Cable, Dual FC / Dual ST, 1.0m	17.25	16.56	15.87	14.66	12.94
FODFC-ST-02	MM Fiber Cable, Dual FC / Dual ST, 2.0m	18.50	17.76	17.02	15.73	13.88
FODFC-ST-03	MM Fiber Cable, Dual FC / Dual ST, 3.0m	19.75	18.96	18.17	16.79	14.81
FODFC-ST-04	MM Fiber Cable, Dual FC / Dual ST, 4.0m	21.00	20.16	19.32	17.85	15.75
FODFC-ST-05	MM Fiber Cable, Dual FC / Dual ST, 5.0m	22.25	21.36	20.47	18.91	16.69

✓RoHS Dual FC to Dual SC Duplex Adapter Cord, Multimode Fiber with OFNR Jacket

FODFC-SC-01	MM Fiber Cable, Dual FC / Dual SC, 1.0m	17.25	16.56	15.87	14.66	12.94
FODFC-SC-02	MM Fiber Cable, Dual FC / Dual SC, 2.0m	18.50	17.76	17.02	15.73	13.88
FODFC-SC-03	MM Fiber Cable, Dual FC / Dual SC, 3.0m	19.75	18.96	18.17	16.79	14.81
FODFC-SC-04	MM Fiber Cable, Dual FC / Dual SC, 4.0m	21.00	20.16	19.32	17.85	15.75
FODFC-SC-05	MM Fiber Cable, Dual FC / Dual SC, 5.0m	22.25	21.36	20.47	18.91	16.69

✓RoHS Dual FC to MT-RJ Duplex Adapter Cord, Multimode Fiber with OFNR Jacket

Note: These MT-RJ connectors do not utilize alignment pins.

FODFC-MT-01	MM Fiber Cable, Dual FC / MT-RJ, 1.0m	17.25	16.56	15.87	14.66	12.94
FODFC-MT-02	MM Fiber Cable, Dual FC / MT-RJ, 2.0m	18.50	17.76	17.02	15.73	13.88
FODFC-MT-03	MM Fiber Cable, Dual FC / MT-RJ, 3.0m	19.75	18.96	18.17	16.79	14.81
FODFC-MT-04	MM Fiber Cable, Dual FC / MT-RJ, 4.0m	21.00	20.16	19.32	17.85	15.75
FODFC-MT-05	MM Fiber Cable, Dual FC / MT-RJ, 5.0m	22.25	21.36	20.47	18.91	16.69

✓RoHS Dual ST to Dual SC Duplex Adapter Cords, Multimode Fiber with OFNR Jacket

FODST-SC-01	MM Fiber Cable, Dual ST / Dual SC, 1.0m	16.00	15.36	14.72	13.60	12.00
FODST-SC-02	MM Fiber Cable, Dual ST / Dual SC, 2.0m	17.25	16.56	15.87	14.66	12.94
FODST-SC-03	MM Fiber Cable, Dual ST / Dual SC, 3.0m	18.50	17.76	17.02	15.73	13.88
FODST-SC-04	MM Fiber Cable, Dual ST / Dual SC, 4.0m	19.75	18.96	18.17	16.79	14.81
FODST-SC-05	MM Fiber Cable, Dual ST / Dual SC, 5.0m	21.00	20.16	19.32	17.85	15.75
FODST-SC-10	MM Fiber Cable, Dual ST / Dual SC, 10.0m	27.25	26.16	25.07	23.16	20.44
FODST-SC-15	MM Fiber Cable, Dual ST / Dual SC, 15.0m	33.50	32.16	30.82	28.48	25.13
FODST-SC-20	MM Fiber Cable, Dual ST / Dual SC, 20.0m	39.75	38.16	36.57	33.79	29.81

✓RoHS Dual ST to MT-RJ Duplex Adapter Cords, Multimode Fiber with OFNR Jacket

Note: These MT-RJ connectors do not utilize alignment pins.

FODST-MT-01	MM Fiber Cable, Dual ST / MT-RJ, 1.0m	16.00	15.36	14.72	13.60	12.00
FODST-MT-02	MM Fiber Cable, Dual ST / MT-RJ, 2.0m	17.25	16.56	15.87	14.66	12.94
FODST-MT-03	MM Fiber Cable, Dual ST / MT-RJ, 3.0m	18.50	17.76	17.02	15.73	13.88
FODST-MT-04	MM Fiber Cable, Dual ST / MT-RJ, 4.0m	19.75	18.96	18.17	16.79	14.81
FODST-MT-05	MM Fiber Cable, Dual ST / MT-RJ, 5.0m	21.00	20.16	19.32	17.85	15.75

✓RoHS Dual ST to Dual LC Duplex Adapter Cords, Multimode Fiber with OFNR Jacket

FODST-LC-01	MM Fiber Cable, Dual ST / Dual LC, 1.0m	26.25	25.20	24.15	22.31	19.69
FODST-LC-02	MM Fiber Cable, Dual ST / Dual LC, 2.0m	27.50	26.40	25.30	23.38	20.63
FODST-LC-03	MM Fiber Cable, Dual ST / Dual LC, 3.0m	28.75	27.60	26.45	24.44	21.56
FODST-LC-04	MM Fiber Cable, Dual ST / Dual LC, 4.0m	30.00	28.80	27.60	25.50	22.50
FODST-LC-05	MM Fiber Cable, Dual ST / Dual LC, 5.0m	31.25	30.00	28.75	26.56	23.44

✓RoHS Dual SC to MT-RJ Duplex Adapter Cords, Multimode Fiber with OFNR Jacket

Note: These MT-RJ connectors do not utilize alignment pins.

FODSC-MT-01	MM Fiber Cable, Dual SC / MT-RJ, 1.0m	16.00	15.36	14.72	13.60	12.00
FODSC-MT-02	MM Fiber Cable, Dual SC / MT-RJ, 2.0m	17.25	16.56	15.87	14.66	12.94
FODSC-MT-03	MM Fiber Cable, Dual SC / MT-RJ, 3.0m	18.50	17.76	17.02	15.73	13.88
FODSC-MT-04	MM Fiber Cable, Dual SC / MT-RJ, 4.0m	19.75	18.96	18.17	16.79	14.81
FODSC-MT-05	MM Fiber Cable, Dual SC / MT-RJ, 5.0m	21.00	20.16	19.32	17.85	15.75

✓RoHS Dual SC to Dual LC Duplex Adapter Cords, Multimode Fiber with OFNR Jacket

FODSC-LC-01	MM Fiber Cable, Dual SC / Dual LC, 1.0m	26.25	25.20	24.15	22.31	19.69
FODSC-LC-02	MM Fiber Cable, Dual SC / Dual LC, 2.0m	27.50	26.40	25.30	23.38	20.63
FODSC-LC-03	MM Fiber Cable, Dual SC / Dual LC, 3.0m	28.75	27.60	26.45	24.44	21.56
FODSC-LC-04	MM Fiber Cable, Dual SC / Dual LC, 4.0m	30.00	28.80	27.60	25.50	22.50
FODSC-LC-05	MM Fiber Cable, Dual SC / Dual LC, 5.0m	31.25	30.00	28.75	26.56	23.44

✓RoHS MT-RJ to Dual LC Duplex Adapter Cords, Multimode Fiber with OFNR Jacket

Note: These MT-RJ connectors do not utilize alignment pins.

FODMT-LC-01	MM Fiber Cable, MT-RJ / Dual LC, 1.0m	26.25	25.20	24.15	22.31	19.69
FODMT-LC-02	MM Fiber Cable, MT-RJ / Dual LC, 2.0m	27.50	26.40	25.30	23.38	20.63
FODMT-LC-03	MM Fiber Cable, MT-RJ / Dual LC, 3.0m	28.75	27.60	26.45	24.44	21.56
FODMT-LC-04	MM Fiber Cable, MT-RJ / Dual LC, 4.0m	30.00	28.80	27.60	25.50	22.50
FODMT-LC-05	MM Fiber Cable, MT-RJ / Dual LC, 5.0m	31.25	30.00	28.75	26.56	23.44

Tip What is the meaning of the OFNR and OFNP fiber cable designations?

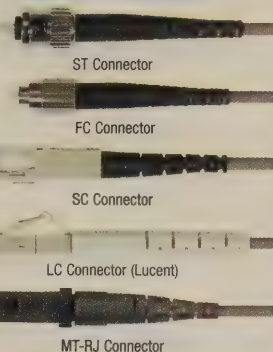
OFNR (Optical Fiber Nonconductive Riser)

This is a cable containing only glass fiber with no copper conductive elements. It is generally intended for vertical runs between floors as part of a fiber backbone. This type of cable complies with the Underwriters Laboratories (UL) fire safety test Riser/1666.

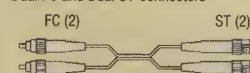
OFNP (Optical Fiber Nonconductive Plenum)

This is a cable containing only glass fiber with no copper conductive elements. It is generally intended for horizontal runs especially within an air handling conduit. This type of cable complies with the Underwriters Laboratories (UL) fire safety test Plenum/910.

CONNECTOR LEGEND



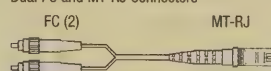
FODFC-ST-XX • Dual FC and Dual ST Connectors



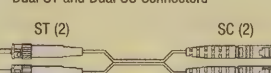
FODFC-SC-XX • Dual FC and Dual SC Connectors



FODFC-MT-XX • Dual FC and MT-RJ Connectors



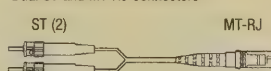
FODST-SC-XX • Dual ST and Dual SC Connectors



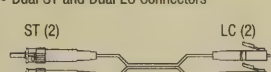
See The Video

www.L-com.com/Videos/A15

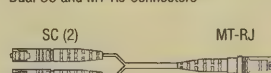
FODST-MT-XX • Dual ST and MT-RJ Connectors



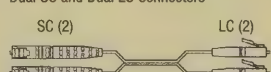
FODST-LC-XX • Dual ST and Dual LC Connectors



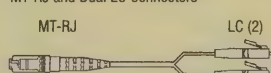
FODSC-MT-XX • Dual SC and MT-RJ Connectors



FODSC-LC-XX • Dual SC and Dual LC Connectors



FODMT-LC-XX • MT-RJ and Dual LC Connectors



What do the terms 9/125, 50/125 and 62.5/125 refer to?
See the free video tip and more at L-com.com/Videos/A15

L-com Global Connectivity

CONNECTOR LEGEND

ST Connector

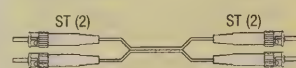
Clipped LC Connector

MT-RJ Connector

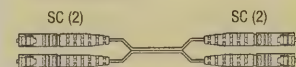
SC Connector

You can have custom fiber cables in as little as 48 hours.
CALL 1-800-343-1455 NOW!

FODSTC50-XX
• Dual ST Connectors



FODSC50-XX
• Dual SC Connectors



FODLC50-CL-XX
• Dual LC Clipped Connectors



FODMTRJ50-XX
• MT-RJ Connectors
• Dual Fiber / Single Jacket



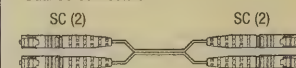
Did you know...

L-com offers 10 Gig optimized 50/125 fiber cable assemblies off the shelf!

FODLC-10G-XX
• Dual LC Connectors



FODSC-10G-XX
• Dual SC Connectors



FODST-10G-XX
• Dual ST Connectors



Item #

Description

1-9

10-24

25-99

100-249 250-499

50/125

L-com's multimode fiber optic patch cords and adapter cords utilize OFNR Riser Rated jackets. All cables are 100% optically tested and utilize a PC polish. Custom lengths and other connector types are available. All cable measurements are in meters. 1m = 3.28 ft.

✓RoHS Dual ST to Dual ST Duplex Patch Cord, Multimode Fiber with OFNR Jacket

FODSTC50-01	MM Fiber Cable, Dual ST / Dual ST, 1.0m	16.00	15.36	14.72	13.60	12.00
FODSTC50-02	MM Fiber Cable, Dual ST / Dual ST, 2.0m	17.25	16.56	15.87	14.66	12.94
FODSTC50-03	MM Fiber Cable, Dual ST / Dual ST, 3.0m	18.50	17.76	17.02	15.73	13.88
FODSTC50-04	MM Fiber Cable, Dual ST / Dual ST, 4.0m	19.75	18.96	18.17	16.79	14.81
FODSTC50-05	MM Fiber Cable, Dual ST / Dual ST, 5.0m	21.00	20.16	19.32	17.85	15.75
FODSTC50-10	MM Fiber Cable, Dual ST / Dual ST, 10.0m	27.25	26.16	25.07	23.16	20.44
FODSTC50-15	MM Fiber Cable, Dual ST / Dual ST, 15.0m	33.50	32.16	30.82	28.48	25.13
FODSTC50-20	MM Fiber Cable, Dual ST / Dual ST, 20.0m	39.75	38.16	36.57	33.79	29.81

✓RoHS Dual SC to Dual SC Duplex Patch Cord, Multimode Fiber with OFNR Jacket

FODSC50-01	MM Fiber Cable, Dual SC / Dual SC, 1.0m	16.00	15.36	14.72	13.60	12.00
FODSC50-02	MM Fiber Cable, Dual SC / Dual SC, 2.0m	17.25	16.56	15.87	14.66	12.94
FODSC50-03	MM Fiber Cable, Dual SC / Dual SC, 3.0m	18.50	17.76	17.02	15.73	13.88
FODSC50-04	MM Fiber Cable, Dual SC / Dual SC, 4.0m	19.75	18.96	18.17	16.79	14.81
FODSC50-05	MM Fiber Cable, Dual SC / Dual SC, 5.0m	21.00	20.16	19.32	17.85	15.75
FODSC50-10	MM Fiber Cable, Dual SC / Dual SC, 10.0m	27.25	26.16	25.07	23.16	20.44
FODSC50-15	MM Fiber Cable, Dual SC / Dual SC, 15.0m	33.50	32.16	30.82	28.48	25.13
FODSC50-20	MM Fiber Cable, Dual SC / Dual SC, 20.0m	39.75	38.16	36.57	33.79	29.81

✓RoHS Dual LC to Dual LC Clipped Duplex Patch Cord, Multimode Fiber with OFNR Jacket

FODLC50-CL-01	MM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 1.0m	20.00	19.60	19.20	18.80	18.40
FODLC50-CL-02	MM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 2.0m	21.00	20.58	20.16	19.74	19.32
FODLC50-CL-03	MM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 3.0m	22.00	21.56	21.12	20.68	20.24
FODLC50-CL-04	MM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 4.0m	23.00	22.54	22.08	21.62	21.16
FODLC50-CL-05	MM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 5.0m	24.00	23.52	23.04	22.56	22.08
FODLC50-CL-10	MM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 10.0m	29.00	28.42	27.84	27.26	26.68

✓RoHS MT-RJ to MT-RJ Duplex Patch Cord - Multimode Fiber with OFNR Jacket

Note: These MT-RJ connectors do not utilize alignment pins.

FODMTRJ50-01	MM Fiber Cable, MT-RJ / MT-RJ, 1.0m	25.00	24.00	23.00	21.25	18.75
FODMTRJ50-02	MM Fiber Cable, MT-RJ / MT-RJ, 2.0m	26.00	24.96	23.92	22.10	19.50
FODMTRJ50-03	MM Fiber Cable, MT-RJ / MT-RJ, 3.0m	27.00	25.92	24.84	22.95	20.25
FODMTRJ50-04	MM Fiber Cable, MT-RJ / MT-RJ, 4.0m	28.00	26.88	25.76	23.80	21.00
FODMTRJ50-05	MM Fiber Cable, MT-RJ / MT-RJ, 5.0m	29.00	27.84	26.68	24.65	21.75

✓RoHS Dual LC to Dual LC 10 Gig Optimized Duplex Patch Cord, Multimode Fiber with OFNR Jacket

FODLC-10G-01	MM Fiber Cable, Dual LC / Dual LC, 10 Gig, 1.0m	25.00	24.00	23.00	21.25	18.75
FODLC-10G-02	MM Fiber Cable, Dual LC / Dual LC, 10 Gig, 2.0m	26.00	24.96	23.92	22.10	19.50
FODLC-10G-03	MM Fiber Cable, Dual LC / Dual LC, 10 Gig, 3.0m	27.00	25.92	24.84	22.95	20.25
FODLC-10G-04	MM Fiber Cable, Dual LC / Dual LC, 10 Gig, 4.0m	28.00	26.88	25.76	23.80	21.00
FODLC-10G-05	MM Fiber Cable, Dual LC / Dual LC, 10 Gig, 5.0m	29.00	27.84	26.68	24.65	21.75

✓RoHS Dual SC to Dual SC 10 Gig Optimized Duplex Patch Cord, Multimode Fiber with OFNR Jacket

FODSC-10G-01	MM Fiber Cable, Dual SC / Dual SC, 10 Gig, 1.0m	20.00	19.20	18.40	17.00	15.00
FODSC-10G-02	MM Fiber Cable, Dual SC / Dual SC, 10 Gig, 2.0m	21.00	20.16	19.32	17.85	15.75
FODSC-10G-03	MM Fiber Cable, Dual SC / Dual SC, 10 Gig, 3.0m	22.00	21.12	20.24	18.70	16.50
FODSC-10G-04	MM Fiber Cable, Dual SC / Dual SC, 10 Gig, 4.0m	23.00	22.08	21.16	19.55	17.25
FODSC-10G-05	MM Fiber Cable, Dual SC / Dual SC, 10 Gig, 5.0m	24.00	23.04	22.08	20.40	18.00

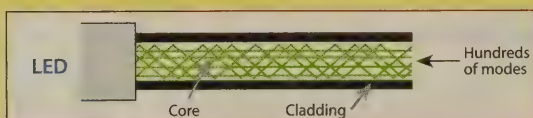
✓RoHS Dual ST to Dual ST 10 Gig Optimized Duplex Patch Cord, Multimode Fiber with OFNR Jacket

FODST-10G-01	MM Fiber Cable, Dual ST / Dual ST, 10 Gig, 1.0m	20.00	19.20	18.40	17.00	15.00
FODST-10G-02	MM Fiber Cable, Dual ST / Dual ST, 10 Gig, 2.0m	21.00	20.16	19.32	17.85	15.75
FODST-10G-03	MM Fiber Cable, Dual ST / Dual ST, 10 Gig, 3.0m	22.00	21.12	20.24	18.70	16.50
FODST-10G-04	MM Fiber Cable, Dual ST / Dual ST, 10 Gig, 4.0m	23.00	22.08	21.16	19.55	17.25
FODST-10G-05	MM Fiber Cable, Dual ST / Dual ST, 10 Gig, 5.0m	24.00	23.04	22.08	20.40	18.00

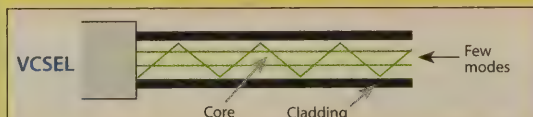


Tip

What's the difference between regular and 10 Gig Multimode fiber?



62.5/125 and 50/125 Multimode fiber is typically attached to communications equipment that use LED (Light-Emitting Diode) transceivers. LED transceivers output hundreds of modes or rays of light into the cable.



10 Gbps Vertical Cavity Surface Emitting Lasers (VCSEL's) use only a specific set of modes, not the hundreds of modes that traditional Multimode fiber LED's use.

A fiber cable's bandwidth is dictated by the combined performance of all the modes, if only several modes fall behind or get ahead it has little influence or effect on the cables total bandwidth handling capabilities. So traditional Multimode cable works fine when used with LED transceivers.

When transmitting light through a fiber cable a phenomenon known as Modal Dispersion occurs. Modal Dispersion causes different modes of light to arrive at the receiving end of the cable at different times. The degree of Modal Dispersion is a result of a fiber's refractive index, which is a property of the fiber that affects the speed of light transmitted through the fiber's core. The refractive index of a fiber is defined during the fiber manufacturing process.

As the need for speed and bandwidth grew, 10 Gbps Vertical Cavity Surface Emitting Lasers (VCSEL's) were developed. These low cost lasers use only a specific set of modes. Because of this there can be very little Modal Dispersion since a fiber cable's bandwidth is dictated by the combined performance of all the modes. If only a few modes fall behind or get ahead when using VCSEL technology, it has a great impact on the cables total bandwidth handling capacity.

Item #	Description	1-9	10-24	25-99	100-249	250-499
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50/125

L-com's multimode fiber optic patch cords and adapter cords utilize OFNR Riser Rated jackets. All cables are 100% optically tested and utilize a PC polish. Custom lengths and other connector types are available. All cable measurements are in meters. 1m = 3.28 ft.

✓RoHS Dual FC to Dual ST Duplex Adapter Cord, Multimode Fiber with OFNR Jacket

FODFC50-ST-01	MM Fiber Cable, Dual FC / Dual ST, 1.0m	17.25	16.56	15.87	14.66	12.94
FODFC50-ST-02	MM Fiber Cable, Dual FC / Dual ST, 2.0m	18.50	17.76	17.02	15.73	13.88
FODFC50-ST-03	MM Fiber Cable, Dual FC / Dual ST, 3.0m	19.75	18.96	18.17	16.79	14.81
FODFC50-ST-04	MM Fiber Cable, Dual FC / Dual ST, 4.0m	21.00	20.16	19.32	17.85	15.75
FODFC50-ST-05	MM Fiber Cable, Dual FC / Dual ST, 5.0m	22.25	21.36	20.47	18.91	16.69

✓RoHS Dual FC to Dual SC Duplex Adapter Cord, Multimode Fiber with OFNR Jacket

FODFC50-SC-01	MM Fiber Cable, Dual FC / Dual SC, 1.0m	17.25	16.56	15.87	14.66	12.94
FODFC50-SC-02	MM Fiber Cable, Dual FC / Dual SC, 2.0m	18.50	17.76	17.02	15.73	13.88
FODFC50-SC-03	MM Fiber Cable, Dual FC / Dual SC, 3.0m	19.75	18.96	18.17	16.79	14.81
FODFC50-SC-04	MM Fiber Cable, Dual FC / Dual SC, 4.0m	21.00	20.16	19.32	17.85	15.75
FODFC50-SC-05	MM Fiber Cable, Dual FC / Dual SC, 5.0m	22.25	21.36	20.47	18.91	16.69

✓RoHS Dual FC to MT-RJ Duplex Adapter Cord, Multimode Fiber with OFNR Jacket

Note: These MT-RJ connectors do not utilize alignment pins.

FODFC50-MT-01	MM Fiber Cable, Dual FC / MT-RJ, 1.0m	17.25	16.56	15.87	14.66	12.94
FODFC50-MT-02	MM Fiber Cable, Dual FC / MT-RJ, 2.0m	18.50	17.76	17.02	15.73	13.88
FODFC50-MT-03	MM Fiber Cable, Dual FC / MT-RJ, 3.0m	19.75	18.96	18.17	16.79	14.81
FODFC50-MT-04	MM Fiber Cable, Dual FC / MT-RJ, 4.0m	21.00	20.16	19.32	17.85	15.75
FODFC50-MT-05	MM Fiber Cable, Dual FC / MT-RJ, 5.0m	22.25	21.36	20.47	18.91	16.69

✓RoHS Dual ST to Dual SC Duplex Adapter Cords, Multimode Fiber with OFNR Jacket

FODST50-SC-01	MM Fiber Cable, Dual ST / Dual SC, 1.0m	16.00	15.36	14.72	13.60	12.00
FODST50-SC-02	MM Fiber Cable, Dual ST / Dual SC, 2.0m	17.25	16.56	15.87	14.66	12.94
FODST50-SC-03	MM Fiber Cable, Dual ST / Dual SC, 3.0m	18.50	17.76	17.02	15.73	13.88
FODST50-SC-04	MM Fiber Cable, Dual ST / Dual SC, 4.0m	19.75	18.96	18.17	16.79	14.81
FODST50-SC-05	MM Fiber Cable, Dual ST / Dual SC, 5.0m	21.00	20.16	19.32	17.85	15.75
FODST50-SC-10	MM Fiber Cable, Dual ST / Dual SC, 10.0m	27.25	26.16	25.07	23.16	20.44
FODST50-SC-15	MM Fiber Cable, Dual ST / Dual SC, 15.0m	33.50	32.16	30.82	28.48	25.13
FODST50-SC-20	MM Fiber Cable, Dual ST / Dual SC, 20.0m	39.75	38.16	36.57	33.79	29.81

✓RoHS Dual ST to MT-RJ Duplex Adapter Cords, Multimode Fiber with OFNR Jacket

Note: These MT-RJ connectors do not utilize alignment pins.

FODST50-MT-01	MM Fiber Cable, Dual ST / MT-RJ, 1.0m	16.00	15.36	14.72	13.60	12.00
FODST50-MT-02	MM Fiber Cable, Dual ST / MT-RJ, 2.0m	17.25	16.56	15.87	14.66	12.94
FODST50-MT-03	MM Fiber Cable, Dual ST / MT-RJ, 3.0m	18.50	17.76	17.02	15.73	13.88
FODST50-MT-04	MM Fiber Cable, Dual ST / MT-RJ, 4.0m	19.75	18.96	18.17	16.79	14.81
FODST50-MT-05	MM Fiber Cable, Dual ST / MT-RJ, 5.0m	21.00	20.16	19.32	17.85	15.75

✓RoHS Dual ST to Dual LC Duplex Adapter Cords, Multimode Fiber with OFNR Jacket

FODST50-LC-01	MM Fiber Cable, Dual ST / Dual LC, 1.0m	26.25	25.20	24.15	22.31	19.69
FODST50-LC-02	MM Fiber Cable, Dual ST / Dual LC, 2.0m	27.50	26.40	25.30	23.38	20.63
FODST50-LC-03	MM Fiber Cable, Dual ST / Dual LC, 3.0m	28.75	27.60	26.45	24.44	21.56
FODST50-LC-04	MM Fiber Cable, Dual ST / Dual LC, 4.0m	30.00	28.80	27.60	25.50	22.50
FODST50-LC-05	MM Fiber Cable, Dual ST / Dual LC, 5.0m	31.25	30.00	28.75	26.56	23.44

✓RoHS Dual SC to MT-RJ Duplex Adapter Cords, Multimode Fiber with OFNR Jacket

Note: These MT-RJ connectors do not utilize alignment pins.

FODSC50-MT-01	MM Fiber Cable, Dual SC / MT-RJ, 1.0m	16.00	15.36	14.72	13.60	12.00
FODSC50-MT-02	MM Fiber Cable, Dual SC / MT-RJ, 2.0m	17.25	16.56	15.87	14.66	12.94
FODSC50-MT-03	MM Fiber Cable, Dual SC / MT-RJ, 3.0m	18.50	17.76	17.02	15.73	13.88
FODSC50-MT-04	MM Fiber Cable, Dual SC / MT-RJ, 4.0m	19.75	18.96	18.17	16.79	14.81
FODSC50-MT-05	MM Fiber Cable, Dual SC / MT-RJ, 5.0m	21.00	20.16	19.32	17.85	15.75

✓RoHS Dual SC to Dual LC Duplex Adapter Cords, Multimode Fiber with OFNR Jacket

FODSC50-LC-01	MM Fiber Cable, Dual SC / Dual LC, 1.0m	26.25	25.20	24.15	22.31	19.69
FODSC50-LC-02	MM Fiber Cable, Dual SC / Dual LC, 2.0m	27.50	26.40	25.30	23.38	20.63
FODSC50-LC-03	MM Fiber Cable, Dual SC / Dual LC, 3.0m	28.75	27.60	26.45	24.44	21.56
FODSC50-LC-04	MM Fiber Cable, Dual SC / Dual LC, 4.0m	30.00	28.80	27.60	25.50	22.50
FODSC50-LC-05	MM Fiber Cable, Dual SC / Dual LC, 5.0m	31.25	30.00	28.75	26.56	23.44

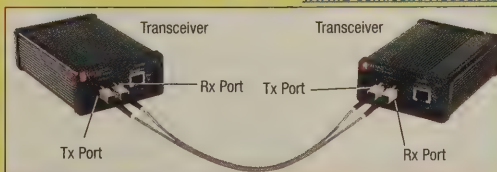
✓RoHS MT-RJ to Dual LC Duplex Adapter Cords, Multimode Fiber with OFNR Jacket

Note: These MT-RJ connectors do not utilize alignment pins.

FODMT50-LC-01	MM Fiber Cable, MT-RJ / Dual LC, 1.0m	26.25	25.20	24.15	22.31	19.69
FODMT50-LC-02	MM Fiber Cable, MT-RJ / Dual LC, 2.0m	27.50	26.40	25.30	23.38	20.63
FODMT50-LC-03	MM Fiber Cable, MT-RJ / Dual LC, 3.0m	28.75	27.60	26.45	24.44	21.56
FODMT50-LC-04	MM Fiber Cable, MT-RJ / Dual LC, 4.0m	30.00	28.80	27.60	25.50	22.50
FODMT50-LC-05	MM Fiber Cable, MT-RJ / Dual LC, 5.0m	31.25	30.00	28.75	26.56	23.44

"A" and "B" markers make the connection

The "A" and "B" markers on duplex fiber jumpers assist in the proper connection between two transceivers. The transmit (Tx) port of one transceiver connects to the Receive (Rx) port of the second transceiver as illustrated at right. It is important to determine how the individual fibers in a duplex assembly are marked (A to A or A to B) to assure proper connections are made between the Tx and Rx ports of the transceivers.



See The Video

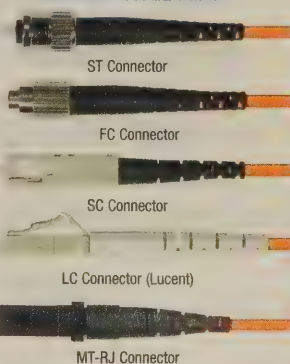
www.l-com.com/Videos/A06



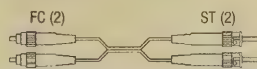
How to clean a fiber cable

See the free video tip and more at L-com.com/Videos/A05

CONNECTOR LEGEND



FODFC50-ST-XX • Dual FC and Dual ST Connectors



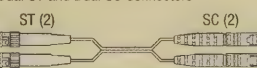
FODFC50-SC-XX • Dual FC and Dual SC Connectors



FODFC50-MT-XX • Dual FC and MT-RJ Connectors

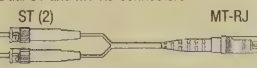


FODST50-SC-XX • Dual ST and Dual SC Connectors



You can have custom fiber cables in as little as 48 hours.
CALL 1-800-343-1455 NOW!

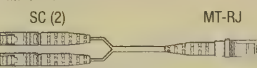
FODST50-MT-XX • Dual ST and MT-RJ Connectors



FODST50-LC-XX • Dual ST and Dual LC Connectors



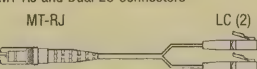
FODSC50-MT-XX • Dual SC and MT-RJ Connectors



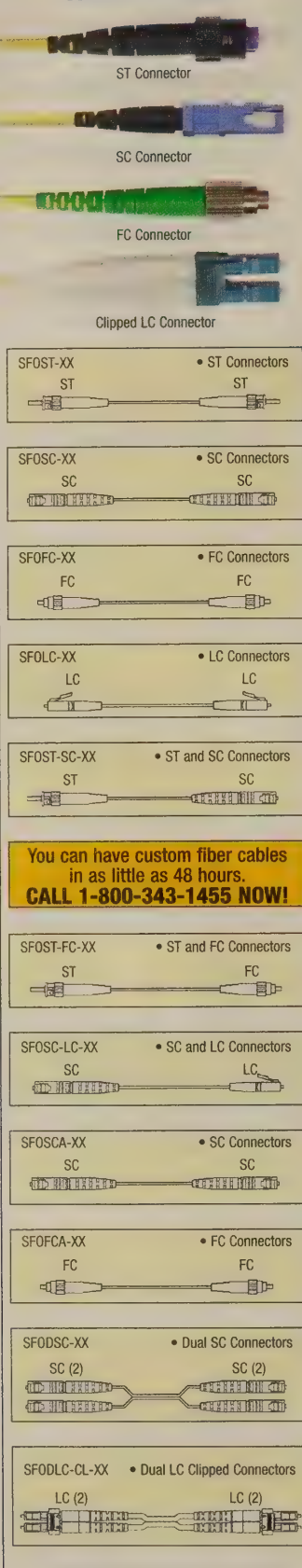
FODSC50-LC-XX • Dual SC and Dual LC Connectors



FODMT50-LC-XX • MT-RJ and Dual LC Connectors



CONNECTOR LEGEND



You can have custom fiber cables
in as little as 48 hours.
CALL 1-800-343-1455 NOW!

Item #	Description	1-9	10-24	25-99	100-249	250-499
9/125 L-com's single mode fiber optic patch cords and adapter cords are offered in both simplex and duplex configuration with OFNR Riser Rated jackets. All cables are 100% optically tested and utilize a PC or APC polish. Custom lengths and other connector types are available as are UPC polished assemblies. All cable measurements are in meters. 1m = 3.28 ft.						
✓RoHS ST to ST Simplex Patch Cord, Single mode Fiber with OFNR Jacket						
SFOST-01	SM Fiber Cable, ST / ST, 1.0m	10.00	9.60	9.20	8.50	7.50
SFOST-02	SM Fiber Cable, ST / ST, 2.0m	10.50	10.08	9.66	8.92	7.88
SFOST-03	SM Fiber Cable, ST / ST, 3.0m	11.00	10.56	10.12	9.35	8.25
SFOST-04	SM Fiber Cable, ST / ST, 4.0m	11.50	11.04	10.58	9.78	8.63
SFOST-05	SM Fiber Cable, ST / ST, 5.0m	12.00	11.52	11.04	10.20	9.00
✓RoHS SC to SC Simplex Patch Cord, Single mode Fiber with OFNR Jacket						
SFOSC-01	SM Fiber Cable, SC / SC, 1.0m	10.00	9.60	9.20	8.50	7.50
SFOSC-02	SM Fiber Cable, SC / SC, 2.0m	10.50	10.08	9.66	8.92	7.88
SFOSC-03	SM Fiber Cable, SC / SC, 3.0m	11.00	10.56	10.12	9.35	8.25
SFOSC-04	SM Fiber Cable, SC / SC, 4.0m	11.50	11.04	10.58	9.78	8.63
SFOSC-05	SM Fiber Cable, SC / SC, 5.0m	12.00	11.52	11.04	10.20	9.00
✓RoHS FC to FC Simplex Patch Cord, Single mode Fiber with OFNR Jacket						
SFOFC-01	SM Fiber Cable, FC / FC, 1.0m	10.00	9.60	9.20	8.50	7.50
SFOFC-02	SM Fiber Cable, FC / FC, 2.0m	10.50	10.08	9.66	8.92	7.88
SFOFC-03	SM Fiber Cable, FC / FC, 3.0m	11.00	10.56	10.12	9.35	8.25
SFOFC-04	SM Fiber Cable, FC / FC, 4.0m	11.50	11.04	10.58	9.78	8.63
SFOFC-05	SM Fiber Cable, FC / FC, 5.0m	12.00	11.52	11.04	10.20	9.00
✓RoHS LC to LC Simplex Patch Cord, Single mode Fiber with OFNR Jacket						
SFOLC-01	SM Fiber Cable, LC / LC, 1.0m	23.00	22.08	21.16	19.55	17.25
SFOLC-02	SM Fiber Cable, LC / LC, 2.0m	23.50	22.56	21.62	19.97	17.63
SFOLC-03	SM Fiber Cable, LC / LC, 3.0m	24.00	23.04	22.08	20.40	18.00
SFOLC-04	SM Fiber Cable, LC / LC, 4.0m	24.50	23.52	22.54	20.83	18.38
SFOLC-05	SM Fiber Cable, LC / LC, 5.0m	25.00	24.00	23.00	21.25	18.75
✓RoHS ST to SC Simplex Adapter Cord, Single mode Fiber with OFNR Jacket						
SFOST-SC-01	SM Fiber Cable, ST / SC, 1.0m	10.00	9.60	9.20	8.50	7.50
SFOST-SC-02	SM Fiber Cable, ST / SC, 2.0m	10.50	10.08	9.66	8.92	7.88
SFOST-SC-03	SM Fiber Cable, ST / SC, 3.0m	11.00	10.56	10.12	9.35	8.25
SFOST-SC-04	SM Fiber Cable, ST / SC, 4.0m	11.50	11.04	10.58	9.78	8.63
SFOST-SC-05	SM Fiber Cable, ST / SC, 5.0m	12.00	11.52	11.04	10.20	9.00
✓RoHS ST to FC Simplex Adapter Cord, Single mode Fiber with OFNR Jacket						
SFOST-FC-01	SM Fiber Cable, ST / FC, 1.0m	10.00	9.60	9.20	8.50	7.50
SFOST-FC-02	SM Fiber Cable, ST / FC, 2.0m	10.50	10.08	9.66	8.92	7.88
SFOST-FC-03	SM Fiber Cable, ST / FC, 3.0m	11.00	10.56	10.12	9.35	8.25
SFOST-FC-04	SM Fiber Cable, ST / FC, 4.0m	11.50	11.04	10.58	9.78	8.63
SFOST-FC-05	SM Fiber Cable, ST / FC, 5.0m	12.00	11.52	11.04	10.20	9.00
✓RoHS SC to LC Simplex Adapter Cord, Single mode Fiber with OFNR Jacket						
SFOSC-LC-01	SM Fiber Cable, SC / LC, 1.0m	16.00	15.36	14.72	13.60	12.00
SFOSC-LC-02	SM Fiber Cable, SC / LC, 2.0m	16.50	15.84	15.18	14.03	12.38
SFOSC-LC-03	SM Fiber Cable, SC / LC, 3.0m	17.00	16.32	15.64	14.45	12.75
SFOSC-LC-04	SM Fiber Cable, SC / LC, 4.0m	17.50	16.80	16.10	14.88	13.13
SFOSC-LC-05	SM Fiber Cable, SC / LC, 5.0m	18.00	17.28	16.56	15.30	13.50
✓RoHS SC to SC Simplex Patch Cord, APC Single mode Fiber with OFNR Jacket						
SFOSCA-01	SM Fiber Cable, SC / SC, 1.0m	12.00	11.28	10.56	9.84	9.12
SFOSCA-02	SM Fiber Cable, SC / SC, 2.0m	12.50	11.75	11.00	10.25	9.50
SFOSCA-03	SM Fiber Cable, SC / SC, 3.0m	13.00	12.22	11.44	10.66	9.88
SFOSCA-04	SM Fiber Cable, SC / SC, 4.0m	13.50	12.69	11.88	11.07	10.26
SFOSCA-05	SM Fiber Cable, SC / SC, 5.0m	14.00	13.16	12.32	11.48	10.64
✓RoHS FC to FC Simplex Patch Cord, APC Single mode Fiber with OFNR Jacket						
SFOFCA-01	SM Fiber Cable, FC / FC, 1.0m	12.50	11.75	11.00	10.25	9.50
SFOFCA-02	SM Fiber Cable, FC / FC, 2.0m	13.00	12.22	11.44	10.66	9.88
SFOFCA-03	SM Fiber Cable, FC / FC, 3.0m	13.50	12.69	11.88	11.07	10.26
SFOFCA-04	SM Fiber Cable, FC / FC, 4.0m	14.00	13.16	12.32	11.48	10.64
SFOFCA-05	SM Fiber Cable, FC / FC, 5.0m	14.50	13.63	12.76	11.89	11.02
✓RoHS Dual SC to Dual SC Duplex Patch Cord, Single mode Fiber with OFNR Jacket						
SFODSC-01	SM Fiber Cable, Dual SC / Dual SC, 1.0m	18.50	17.76	17.02	15.73	13.88
SFODSC-02	SM Fiber Cable, Dual SC / Dual SC, 2.0m	19.50	18.72	17.94	16.58	14.63
SFODSC-03	SM Fiber Cable, Dual SC / Dual SC, 3.0m	20.50	19.68	18.86	17.43	15.38
SFODSC-04	SM Fiber Cable, Dual SC / Dual SC, 4.0m	21.50	20.64	19.78	18.27	16.13
SFODSC-05	SM Fiber Cable, Dual SC / Dual SC, 5.0m	22.50	21.60	20.70	19.13	16.88
✓RoHS Dual LC to Dual LC Clipped Duplex Patch Cord, Single mode Fiber with OFNR Jacket						
SFODLC-CL-01	SM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 1.0m	31.00	29.76	28.52	26.35	23.25
SFODLC-CL-02	SM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 2.0m	32.00	30.72	29.44	27.20	24.00
SFODLC-CL-03	SM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 3.0m	33.00	31.68	30.36	28.05	24.75
SFODLC-CL-04	SM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 4.0m	34.00	32.64	31.28	28.90	25.50
SFODLC-CL-05	SM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 5.0m	35.00	33.60	32.20	29.75	26.25
SFODLC-CL-10	SM Fiber Cable, Dual Clipped LC / Dual Clipped LC, 10.0m	40.00	38.40	36.80	34.00	30.00



Item # Description 1-9 10-24 25-99 100-249 250-499

9/125

L-com's single mode fiber optic patch cords and adapter cords are offered in both simplex and duplex configuration with OFNR Riser Rated jackets. All cables are 100% optically tested and utilize a PC or APC polish. Custom lengths and other connector types are available as are UPC polished assemblies. All cable measurements are in meters. 1m = 3.28 ft.

RoHS Dual SC to MT-RJ Duplex Adapter Cord, Single mode Fiber with OFNR Jacket

Note: These MT-RJ connectors do not utilize alignment pins.

SFODSC-MT-01	SM Fiber Cable, Dual SC / MT-RJ, 1.0m	18.50	17.76	17.02	15.73	13.88
SFODSC-MT-02	SM Fiber Cable, Dual SC / MT-RJ, 2.0m	19.50	18.72	17.94	16.58	14.63
SFODSC-MT-03	SM Fiber Cable, Dual SC / MT-RJ, 3.0m	20.50	19.68	18.86	17.43	15.38
SFODSC-MT-04	SM Fiber Cable, Dual SC / MT-RJ, 4.0m	21.50	20.64	19.78	18.27	16.13
SFODSC-MT-05	SM Fiber Cable, Dual SC / MT-RJ, 5.0m	22.50	21.60	20.70	19.13	16.88

RoHS Dual ST to MT-RJ Duplex Adapter Cord, Single mode Fiber with OFNR Jacket

Note: These MT-RJ connectors do not utilize alignment pins.

SFODST-MT-01	SM Fiber Cable, Dual ST / MT-RJ, 1.0m	18.50	17.76	17.02	15.73	13.88
SFODST-MT-02	SM Fiber Cable, Dual ST / MT-RJ, 2.0m	19.50	18.72	17.94	16.58	14.63
SFODST-MT-03	SM Fiber Cable, Dual ST / MT-RJ, 3.0m	20.50	19.68	18.86	17.43	15.38
SFODST-MT-04	SM Fiber Cable, Dual ST / MT-RJ, 4.0m	21.50	20.64	19.78	18.27	16.13
SFODST-MT-05	SM Fiber Cable, Dual ST / MT-RJ, 5.0m	22.50	21.60	20.70	19.13	16.88

RoHS Dual ST to Dual ST Duplex Patch Cord, Single mode Fiber with OFNR Jacket

SFODST-01	SM Fiber Cable, Dual ST / Dual ST, 1.0m	18.50	17.76	17.02	15.73	13.88
SFODST-02	SM Fiber Cable, Dual ST / Dual ST, 2.0m	19.50	18.72	17.94	16.58	14.63
SFODST-03	SM Fiber Cable, Dual ST / Dual ST, 3.0m	20.50	19.68	18.86	17.43	15.38
SFODST-04	SM Fiber Cable, Dual ST / Dual ST, 4.0m	21.50	20.64	19.78	18.27	16.13
SFODST-05	SM Fiber Cable, Dual ST / Dual ST, 5.0m	22.50	21.60	20.70	19.13	16.88

RoHS Dual ST to Dual SC Duplex Adapter Cord, Single mode Fiber with OFNR Jacket

SFODST-SC-01	SM Fiber Cable, Dual ST / Dual SC, 1.0m	18.50	17.76	17.02	15.73	13.88
SFODST-SC-02	SM Fiber Cable, Dual ST / Dual SC, 2.0m	19.50	18.72	17.94	16.58	14.63
SFODST-SC-03	SM Fiber Cable, Dual ST / Dual SC, 3.0m	20.50	19.68	18.86	17.43	15.38
SFODST-SC-04	SM Fiber Cable, Dual ST / Dual SC, 4.0m	21.50	20.64	19.78	18.27	16.13
SFODST-SC-05	SM Fiber Cable, Dual ST / Dual SC, 5.0m	22.50	21.60	20.70	19.13	16.88

RoHS Dual ST to Dual FC Duplex Adapter Cord, Single mode Fiber with OFNR Jacket

SFODST-FC-01	SM Fiber Cable, Dual ST / Dual FC, 1.0m	19.50	18.72	17.94	16.58	14.63
SFODST-FC-02	SM Fiber Cable, Dual ST / Dual FC, 2.0m	20.50	19.68	18.86	17.43	15.38
SFODST-FC-03	SM Fiber Cable, Dual ST / Dual FC, 3.0m	21.50	20.64	19.78	18.27	16.13
SFODST-FC-04	SM Fiber Cable, Dual ST / Dual FC, 4.0m	22.50	21.60	20.70	19.13	16.88
SFODST-FC-05	SM Fiber Cable, Dual ST / Dual FC, 5.0m	23.50	22.56	21.62	19.97	17.63

RoHS Dual ST to Dual LC Duplex Adapter Cord, Single mode Fiber with OFNR Jacket

SFODST-LC-01	SM Fiber Cable, Dual ST / Dual LC, 1.0m	29.00	27.84	26.68	24.65	21.75
SFODST-LC-02	SM Fiber Cable, Dual ST / Dual LC, 2.0m	30.00	28.80	27.60	25.50	22.50
SFODST-LC-03	SM Fiber Cable, Dual ST / Dual LC, 3.0m	31.00	29.76	28.52	26.35	23.25
SFODST-LC-04	SM Fiber Cable, Dual ST / Dual LC, 4.0m	32.00	30.72	29.44	27.20	24.00
SFODST-LC-05	SM Fiber Cable, Dual ST / Dual LC, 5.0m	33.00	31.68	30.36	28.05	24.75

RoHS Dual SC to Dual LC Duplex Adapter Cord, Single mode Fiber with OFNR Jacket

SFODSC-LC-01	SM Fiber Cable, Dual SC / Dual LC, 1.0m	29.00	27.84	26.68	24.65	21.75
SFODSC-LC-02	SM Fiber Cable, Dual SC / Dual LC, 2.0m	30.00	28.80	27.60	25.50	22.50
SFODSC-LC-03	SM Fiber Cable, Dual SC / Dual LC, 3.0m	31.00	29.76	28.52	26.35	23.25
SFODSC-LC-04	SM Fiber Cable, Dual SC / Dual LC, 4.0m	32.00	30.72	29.44	27.20	24.00
SFODSC-LC-05	SM Fiber Cable, Dual SC / Dual LC, 5.0m	33.00	31.68	30.36	28.05	24.75

RoHS Dual SC to Dual SC Duplex Patch Cord, APC Single mode Fiber with OFNR Jacket

SFODSCA-01	SM Fiber Cable, Dual SC / Dual SC, 1.0m	22.50	21.15	19.80	18.45	17.10
SFODSCA-02	SM Fiber Cable, Dual SC / Dual SC, 2.0m	23.50	22.09	20.68	19.27	17.86
SFODSCA-03	SM Fiber Cable, Dual SC / Dual SC, 3.0m	24.50	23.03	21.56	20.09	18.62
SFODSCA-04	SM Fiber Cable, Dual SC / Dual SC, 4.0m	25.50	23.97	22.44	20.91	19.38
SFODSCA-05	SM Fiber Cable, Dual SC / Dual SC, 5.0m	26.50	24.91	23.32	21.73	20.14

RoHS Dual FC to Dual FC Duplex Patch Cord, APC Single mode Fiber with OFNR Jacket

SFODFCA-01	SM Fiber Cable, Dual FC / Dual FC, 1.0m	24.00	22.56	21.12	19.68	18.24
SFODFCA-02	SM Fiber Cable, Dual FC / Dual FC, 2.0m	25.00	23.50	22.00	20.50	19.00
SFODFCA-03	SM Fiber Cable, Dual FC / Dual FC, 3.0m	26.00	24.44	22.88	21.32	19.76
SFODFCA-04	SM Fiber Cable, Dual FC / Dual FC, 4.0m	27.00	25.38	23.76	22.14	20.52
SFODFCA-05	SM Fiber Cable, Dual FC / Dual FC, 5.0m	28.00	26.32	24.64	22.96	21.28

RoHS Dual LC to Dual LC Duplex Patch Cord, APC Single mode Fiber with OFNR Jacket

SFODLCA-01	SM Fiber Cable, Dual LC / Dual LC, 1.0m	49.00	46.06	43.12	40.18	37.24
SFODLCA-02	SM Fiber Cable, Dual LC / Dual LC, 2.0m	50.00	47.00	44.00	41.00	38.00
SFODLCA-03	SM Fiber Cable, Dual LC / Dual LC, 3.0m	51.00	47.94	44.88	41.82	38.76
SFODLCA-04	SM Fiber Cable, Dual LC / Dual LC, 4.0m	52.00	48.88	45.76	42.64	39.52
SFODLCA-05	SM Fiber Cable, Dual LC / Dual LC, 5.0m	53.00	49.82	46.64	43.46	40.28

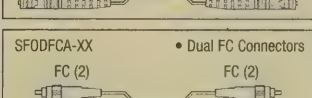
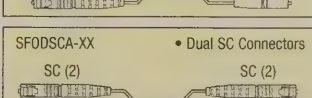
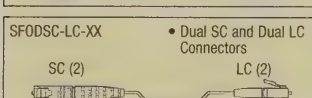
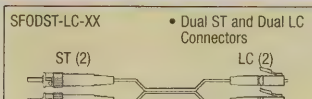
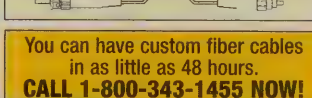
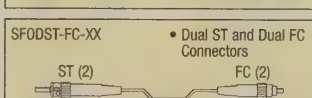
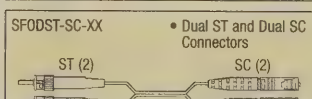
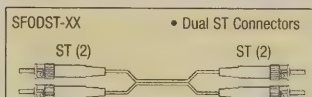
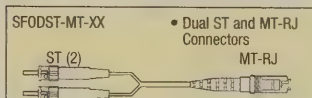
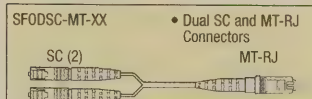
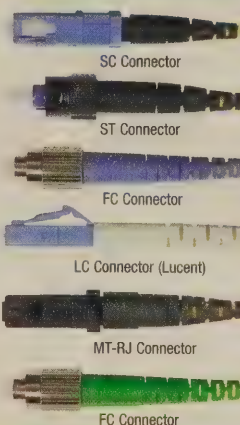
Polish Types / Typical Back Reflection



In Single mode applications the amount of back reflection on assemblies can be critical. L-com offers both PC and APC Single mode assemblies off the shelf.

UPC finishes are available by custom order.

CONNECTOR LEGEND

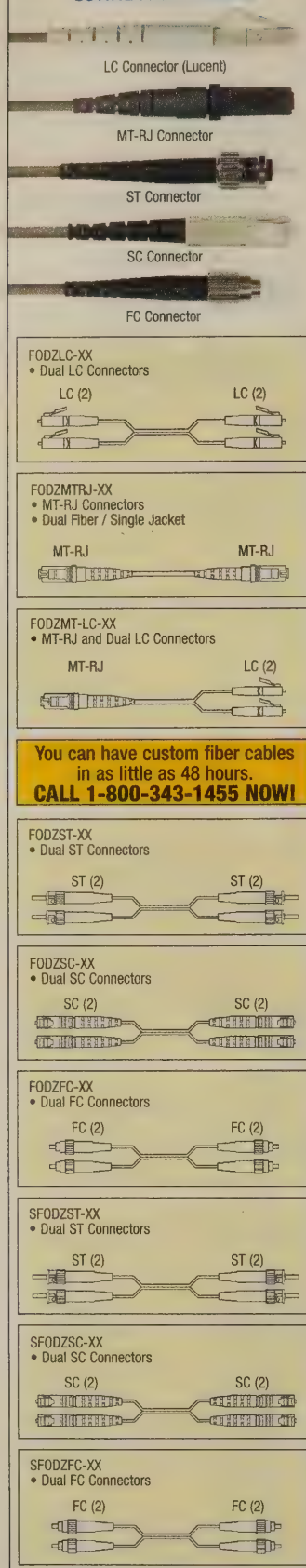


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CONNECTOR LEGEND



Item # Description 1-9 10-24 25-99 100-249 250-499

62.5/125

L-com utilizes a Riser Rated OFNR Low Smoke Zero Halogen (LSZH) jacket and all cables come standard with a PC polish. UPC polish available as a custom as well as custom lengths and connector combinations.

RoHS Dual LC to Dual LC Duplex Patch Cord, Multimode Fiber with LSZH Jacket

FODZLC-01	MM LSZH Fiber Cable, Dual LC / Dual LC, 1.0m	36.50	35.04	33.58	31.03	27.38
FODZLC-02	MM LSZH Fiber Cable, Dual LC / Dual LC, 2.0m	38.00	36.48	34.96	32.30	28.50
FODZLC-03	MM LSZH Fiber Cable, Dual LC / Dual LC, 3.0m	39.50	37.92	36.34	33.57	29.63
FODZLC-04	MM LSZH Fiber Cable, Dual LC / Dual LC, 4.0m	41.00	39.36	37.72	34.85	30.75
FODZLC-05	MM LSZH Fiber Cable, Dual LC / Dual LC, 5.0m	42.50	40.80	39.10	36.13	31.88

RoHS MT-RJ to MT-RJ Duplex Patch Cord, Multimode Fiber with LSZH Jacket

FODZMTRJ-01	MM LSZH Fiber Cable, MT-RJ / MT-RJ, 1.0m	16.25	15.60	14.95	13.81	12.19
FODZMTRJ-02	MM LSZH Fiber Cable, MT-RJ / MT-RJ, 2.0m	17.75	17.04	16.33	15.09	13.31
FODZMTRJ-03	MM LSZH Fiber Cable, MT-RJ / MT-RJ, 3.0m	19.25	18.48	17.71	16.36	14.44
FODZMTRJ-04	MM LSZH Fiber Cable, MT-RJ / MT-RJ, 4.0m	20.75	19.92	19.09	17.64	15.56
FODZMTRJ-05	MM LSZH Fiber Cable, MT-RJ / MT-RJ, 5.0m	22.25	21.36	20.47	18.91	16.69

RoHS MT-RJ to Dual LC Duplex Adapter Cord, Multimode Fiber with LSZH Jacket

FODZMT-LC-01	MM LSZH Fiber Cable, MT-RJ / Dual LC, 1.0m	26.50	25.44	24.38	22.53	19.88
FODZMT-LC-02	MM LSZH Fiber Cable, MT-RJ / Dual LC, 2.0m	28.00	26.88	25.76	23.80	21.00
FODZMT-LC-03	MM LSZH Fiber Cable, MT-RJ / Dual LC, 3.0m	29.50	28.32	27.14	25.08	22.13
FODZMT-LC-04	MM LSZH Fiber Cable, MT-RJ / Dual LC, 4.0m	31.00	29.76	28.52	26.35	23.25
FODZMT-LC-05	MM LSZH Fiber Cable, MT-RJ / Dual LC, 5.0m	32.50	31.20	29.90	27.63	24.38

RoHS Dual ST to Dual ST Duplex Patch Cord, Multimode Fiber with LSZH Jacket

FODZST-01	MM LSZH Fiber Cable, Dual ST / Dual ST, 1.0m	14.75	14.16	13.57	12.54	11.06
FODZST-02	MM LSZH Fiber Cable, Dual ST / Dual ST, 2.0m	16.25	15.60	14.95	13.81	12.19
FODZST-03	MM LSZH Fiber Cable, Dual ST / Dual ST, 3.0m	17.75	17.04	16.33	15.09	13.31
FODZST-04	MM LSZH Fiber Cable, Dual ST / Dual ST, 4.0m	19.25	18.48	17.71	16.36	14.44
FODZST-05	MM LSZH Fiber Cable, Dual ST / Dual ST, 5.0m	20.75	19.92	19.09	17.64	15.56

RoHS Dual SC to Dual SC Duplex Patch Cord, Multimode with LSZH Jacket

FODZSC-01	MM LSZH Fiber Cable, Dual SC / Dual SC, 1.0m	14.75	14.16	13.57	12.54	11.06
FODZSC-02	MM LSZH Fiber Cable, Dual SC / Dual SC, 2.0m	16.25	15.60	14.95	13.81	12.19
FODZSC-03	MM LSZH Fiber Cable, Dual SC / Dual SC, 3.0m	17.75	17.04	16.33	15.09	13.31
FODZSC-04	MM LSZH Fiber Cable, Dual SC / Dual SC, 4.0m	19.25	18.48	17.71	16.36	14.44
FODZSC-05	MM LSZH Fiber Cable, Dual SC / Dual SC, 5.0m	20.75	19.92	19.09	17.64	15.56

RoHS Dual FC to Dual FC Duplex Patch Cord, Multimode Fiber with LSZH Jacket

FODZFC-01	MM LSZH Fiber Cable, Dual FC / Dual FC, 1.0m	17.50	16.80	16.10	14.88	13.13
FODZFC-02	MM LSZH Fiber Cable, Dual FC / Dual FC, 2.0m	19.00	18.24	17.48	16.15	14.25
FODZFC-03	MM LSZH Fiber Cable, Dual FC / Dual FC, 3.0m	20.50	19.68	18.86	17.43	15.38
FODZFC-04	MM LSZH Fiber Cable, Dual FC / Dual FC, 4.0m	22.00	21.12	20.24	18.70	16.50
FODZFC-05	MM LSZH Fiber Cable, Dual FC / Dual FC, 5.0m	23.50	22.56	21.62	19.97	17.63

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L-com utilizes a Riser Rated OFNR Low Smoke Zero Halogen (LSZH) jacket and all cables come standard with PC or APC polish. UPC polish is available as well as custom lengths and connector combinations.

RoHS Dual ST to Dual ST Duplex Patch Cord, Single mode Fiber with LSZH Jacket

SFODZST-01	SM LSZH Fiber Cable, Dual ST / Dual ST, 1.0m	17.50	16.80	16.10	14.88	13.13
SFODZST-02	SM LSZH Fiber Cable, Dual ST / Dual ST, 2.0m	18.75	18.00	17.25	15.94	14.06
SFODZST-03	SM LSZH Fiber Cable, Dual ST / Dual ST, 3.0m	20.00	19.20	18.40	17.00	15.00
SFODZST-04	SM LSZH Fiber Cable, Dual ST / Dual ST, 4.0m	21.25	20.40	19.55	18.06	15.94
SFODZST-05	SM LSZH Fiber Cable, Dual ST / Dual ST, 5.0m	22.50	21.60	20.70	19.13	16.88

RoHS Dual SC to Dual SC Duplex Patch Cord, Single mode with LSZH Jacket

SFODZSC-01	SM LSZH Fiber Cable, Dual SC / Dual SC, 1.0m	17.50	16.80	16.10	14.88	13.13
SFODZSC-02	SM LSZH Fiber Cable, Dual SC / Dual SC, 2.0m	18.75	18.00	17.25	15.94	14.06
SFODZSC-03	SM LSZH Fiber Cable, Dual SC / Dual SC, 3.0m	20.00	19.20	18.40	17.00	15.00
SFODZSC-04	SM LSZH Fiber Cable, Dual SC / Dual SC, 4.0m	21.25	20.40	19.55	18.06	15.94
SFODZSC-05	SM LSZH Fiber Cable, Dual SC / Dual SC, 5.0m	22.50	21.60	20.70	19.13	16.88

RoHS Dual FC to Dual FC Duplex Patch Cord, Single mode Fiber with LSZH Jacket

SFODZFC-01	SM LSZH Fiber Cable, Dual FC / Dual FC, 1.0m	19.00	18.24	17.48	16.15	14.25
SFODZFC-02	SM LSZH Fiber Cable, Dual FC / Dual FC, 2.0m	20.25	19.44	18.63	17.21	15.19
SFODZFC-03	SM LSZH Fiber Cable, Dual FC / Dual FC, 3.0m	21.50	20.64	19.78	18.27	16.13
SFODZFC-04	SM LSZH Fiber Cable, Dual FC / Dual FC, 4.0m	22.75	21.84	20.93	19.34	17.06
SFODZFC-05	SM LSZH Fiber Cable, Dual FC / Dual FC, 5.0m	24.00	23.04	22.08	20.40	18.00



Tip What is LSZH cable?

LSZH stands for Low Smoke Zero Halogen and describes a cable jacket material that is non-halogenated and flame retardant. This type of jacket material has excellent fire safety characteristics of low smoke, low toxicity and low corrosion. This type of cable jacket material is used in applications such as Central Offices, Mass Transit Rail Systems, Nuclear Plants and Oil Refineries or in any other application where the protection of people and equipment from toxic and corrosive gases is critical.

Item #	Description	1-9	10-24	25-99	100-249	250-499
50/125 L-com utilizes a Riser Rated OFNR Low Smoke Zero Halogen (LSZH) jacket and all cables come standard with a PC polish. UPC polish available as a custom as well as custom lengths and connector combinations.						
RoHS Dual LC to Dual LC Duplex Patch Cord, Multimode Fiber with LSZH Jacket						
FODZLC50-01	MM LSZH Fiber Cable, Dual LC / Dual LC, 1.0m	36.50	35.04	33.58	31.03	27.38
FODZLC50-02	MM LSZH Fiber Cable, Dual LC / Dual LC, 2.0m	38.00	36.48	34.96	32.30	28.50
FODZLC50-03	MM LSZH Fiber Cable, Dual LC / Dual LC, 3.0m	39.50	37.92	36.34	33.57	29.63
FODZLC50-04	MM LSZH Fiber Cable, Dual LC / Dual LC, 4.0m	41.00	39.36	37.72	34.85	30.75
FODZLC50-05	MM LSZH Fiber Cable, Dual LC / Dual LC, 5.0m	42.50	40.80	39.10	36.13	31.88
RoHS MT-RJ to MT-RJ Duplex Patch Cord, Multimode Fiber with LSZH Jacket						
FODZMTRJ50-01	MM LSZH Fiber Cable, MT-RJ / MT-RJ, 1.0m	16.25	15.60	14.95	13.81	12.19
FODZMTRJ50-02	MM LSZH Fiber Cable, MT-RJ / MT-RJ, 2.0m	17.75	17.04	16.33	15.09	13.31
FODZMTRJ50-03	MM LSZH Fiber Cable, MT-RJ / MT-RJ, 3.0m	19.25	18.48	17.71	16.36	14.44
FODZMTRJ50-04	MM LSZH Fiber Cable, MT-RJ / MT-RJ, 4.0m	20.75	19.92	19.09	17.64	15.56
FODZMTRJ50-05	MM LSZH Fiber Cable, MT-RJ / MT-RJ, 5.0m	22.25	21.36	20.47	18.91	16.69
RoHS Dual ST to Dual ST Duplex Patch Cord, Multimode Fiber with LSZH Jacket						
FODZST50-01	MM LSZH Fiber Cable, Dual ST / Dual ST, 1.0m	14.75	14.16	13.57	12.54	11.06
FODZST50-02	MM LSZH Fiber Cable, Dual ST / Dual ST, 2.0m	16.25	15.60	14.95	13.81	12.19
FODZST50-03	MM LSZH Fiber Cable, Dual ST / Dual ST, 3.0m	17.75	17.04	16.33	15.09	13.31
FODZST50-04	MM LSZH Fiber Cable, Dual ST / Dual ST, 4.0m	19.25	18.48	17.71	16.36	14.44
FODZST50-05	MM LSZH Fiber Cable, Dual ST / Dual ST, 5.0m	20.75	19.92	19.09	17.64	15.56
RoHS Dual SC to Dual SC Duplex Patch Cord, Multimode with LSZH Jacket						
FODZSC50-01	MM LSZH Fiber Cable, Dual SC / Dual SC, 1.0m	14.75	14.16	13.57	12.54	11.06
FODZSC50-02	MM LSZH Fiber Cable, Dual SC / Dual SC, 2.0m	16.25	15.60	14.95	13.81	12.19
FODZSC50-03	MM LSZH Fiber Cable, Dual SC / Dual SC, 3.0m	17.75	17.04	16.33	15.09	13.31
FODZSC50-04	MM LSZH Fiber Cable, Dual SC / Dual SC, 4.0m	19.25	18.48	17.71	16.36	14.44
FODZSC50-05	MM LSZH Fiber Cable, Dual SC / Dual SC, 5.0m	20.75	19.92	19.09	17.64	15.56
RoHS Dual FC to Dual FC Duplex Patch Cord, Multimode Fiber with LSZH Jacket						
FODZFC50-01	MM LSZH Fiber Cable, Dual FC / Dual FC, 1.0m	17.50	16.80	16.10	14.88	13.13
FODZFC50-02	MM LSZH Fiber Cable, Dual FC / Dual FC, 2.0m	19.00	18.24	17.48	16.15	14.25
FODZFC50-03	MM LSZH Fiber Cable, Dual FC / Dual FC, 3.0m	20.50	19.68	18.86	17.43	15.38
FODZFC50-04	MM LSZH Fiber Cable, Dual FC / Dual FC, 4.0m	22.00	21.12	20.24	18.70	16.50
FODZFC50-05	MM LSZH Fiber Cable, Dual FC / Dual FC, 5.0m	23.50	22.56	21.62	19.97	17.63

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L-com utilizes a Riser Rated OFNR Low Smoke Zero Halogen (LSZH) jacket and all cables come standard with PC or APC polish. UPC polish is available as well as custom lengths and connector combinations.

RoHS Dual LC to Dual LC Duplex Patch Cord, Single mode Fiber with LSZH Jacket

SFODZLC-01	SM LSZH Fiber Cable, Dual LC / Dual LC, 1.0m	39.25	37.68	36.11	33.36	29.44
SFODZLC-02	SM LSZH Fiber Cable, Dual LC / Dual LC, 2.0m	40.50	38.88	37.26	34.42	30.38
SFODZLC-03	SM LSZH Fiber Cable, Dual LC / Dual LC, 3.0m	41.75	40.08	38.41	35.49	31.31
SFODZLC-04	SM LSZH Fiber Cable, Dual LC / Dual LC, 4.0m	43.00	41.28	39.56	36.55	32.25
SFODZLC-05	SM LSZH Fiber Cable, Dual LC / Dual LC, 5.0m	44.25	42.48	40.71	37.61	33.19

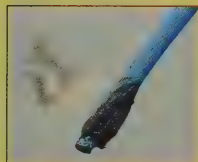
RoHS MT-RJ to MT-RJ Duplex Patch Cord, Single mode Fiber with LSZH Jacket

SFODZMTRJ-01	SM LSZH Fiber Cable, MT-RJ / MT-RJ, 1.0m	18.75	18.00	17.25	15.94	14.06
SFODZMTRJ-02	SM LSZH Fiber Cable, MT-RJ / MT-RJ, 2.0m	20.00	19.20	18.40	17.00	15.00
SFODZMTRJ-03	SM LSZH Fiber Cable, MT-RJ / MT-RJ, 3.0m	21.25	20.40	19.55	18.06	15.94
SFODZMTRJ-04	SM LSZH Fiber Cable, MT-RJ / MT-RJ, 4.0m	22.50	21.60	20.70	19.13	16.88
SFODZMTRJ-05	SM LSZH Fiber Cable, MT-RJ / MT-RJ, 5.0m	23.75	22.80	21.85	20.19	17.81

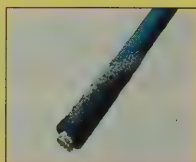
RoHS MT-RJ to Dual LC Duplex Adapter Cord, Single mode Fiber with LSZH Jacket

SFODZMT-LC-01	SM LSZH Fiber Cable, MT-RJ / Dual LC, 1.0m	29.25	28.08	26.91	24.86	21.94
SFODZMT-LC-02	SM LSZH Fiber Cable, MT-RJ / Dual LC, 2.0m	30.50	29.28	28.06	25.93	22.88
SFODZMT-LC-03	SM LSZH Fiber Cable, MT-RJ / Dual LC, 3.0m	31.75	30.48	29.21	26.99	23.81
SFODZMT-LC-04	SM LSZH Fiber Cable, MT-RJ / Dual LC, 4.0m	33.00	31.68	30.36	28.05	24.75
SFODZMT-LC-05	SM LSZH Fiber Cable, MT-RJ / Dual LC, 5.0m	34.25	32.88	31.51	29.11	25.69

Understanding cable flammability ratings



Plenum (CMP) Rated Cable
Complies with NFPA-262 and UL-910. It is the only cable allowed in spaces defined as air plenums such as raised flooring systems and air handling ducts. Plenum cables must self extinguish and not re-ignite. They also produce less smoke than traditional PVC cables. The smoke and fumes are toxic.



Riser (CMR) Rated Cable
Complies with UL-1666. Defined for usage in vertical tray applications such as cable runs between floors through cable risers or in elevator shafts. These spaces cannot be used for environmental air. These cables must self extinguish and must also prevent the flame from traveling up the cable in a vertical burn test.



Low Smoke Zero Halogen (LSZH) Rated Cable
Used in shipboard applications and computer networking rooms where toxic or acidic smoke and fumes can injure people and/or equipment. Examples of Halogens include Fluorine, Chlorine, Bromine and Iodine. These materials when burned produce acidic smoke that can cause harm. Low Smoke means the cable does not produce the heavy black soot and smoke common with PVC cables. These cables will self extinguish but cannot pass UL-910 or UL-1666 for a plenum or riser rating.

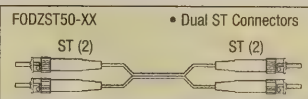
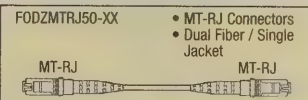
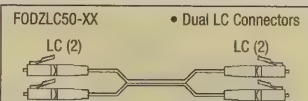
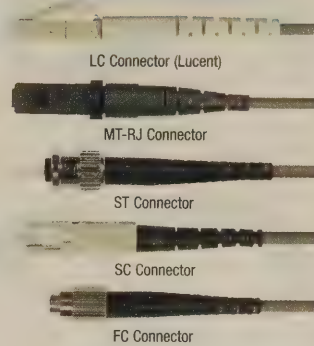
General Purpose (CM, CMG, CMX) Cable
Complies with UL-1581 testing. They will burn and partially self extinguish. Not for use between building floors or in air plenum spaces. Often these cables are used for workstation cables and patch cords.



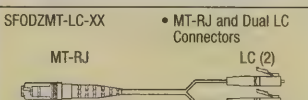
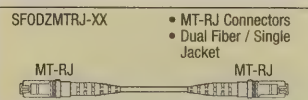
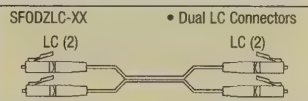
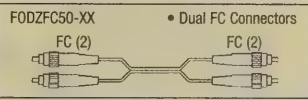
See The Video

www.l-com.com/Videos/A20

CONNECTOR LEGEND



You can have custom fiber cables in as little as 48 hours.
CALL 1-800-343-1455 NOW!



For more useful information go to....
www.L-com.com/Resources

L-com Global Connectivity



Item #	Description	List Price
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Variable Length 62.5/125 Multimode Fiber Coil Cables

L-com's exclusive coil fiber cables provide flexibility for all your additions and changes. These unique cables feature a coiled cable construction, which supports variable lengths when equipment is moved or added. Our quality-constructed cables are great for securing fiber to the desktop applications as well as server and equipment rack usage. These assemblies feature SC, ST, LC and MTRJ connectors along with an extremely abrasion resistant polyurethane jacket that stands up to oxidation and oil better than a standard PVC cable.

Dual ST to Dual ST Coil Cable, Multimode Fiber with Polyurethane Jacket

FODST-C-03	MM Coil Fiber Cable, Dual ST / Dual ST, 3.0m Extended Length	110.00
FODST-C-05	MM Coil Fiber Cable, Dual ST / Dual ST, 5.0m Extended Length	145.00
FODST-C-07	MM Coil Fiber Cable, Dual ST / Dual ST, 7.0m Extended Length	179.00

Dual SC to Dual SC Coil Cable, Multimode Fiber with Polyurethane Jacket

FODSC-C-03	MM Coil Fiber Cable, Dual SC / Dual SC, 3.0m Extended Length	110.00
FODSC-C-05	MM Coil Fiber Cable, Dual SC / Dual SC, 5.0m Extended Length	145.00
FODSC-C-07	MM Coil Fiber Cable, Dual SC / Dual SC, 7.0m Extended Length	179.00

Dual LC to Dual LC Coil Cable, Multimode Fiber with Polyurethane Jacket

FODLC-C-03	MM Coil Fiber Cable, Dual LC / Dual LC, 3.0m Extended Length	139.00
FODLC-C-05	MM Coil Fiber Cable, Dual LC / Dual LC, 5.0m Extended Length	169.00
FODLC-C-07	MM Coil Fiber Cable, Dual LC / Dual LC, 7.0m Extended Length	199.00

MT-RJ to MT-RJ Coil Cable, Multimode Fiber with Polyurethane Jacket

FODMTRJ-C-03	MM Coil Fiber Cable, MT-RJ / MT-RJ, 3.0m Extended Length	139.00
FODMTRJ-C-05	MM Coil Fiber Cable, MT-RJ / MT-RJ, 5.0m Extended Length	179.00
FODMTRJ-C-07	MM Coil Fiber Cable, MT-RJ / MT-RJ, 7.0m Extended Length	209.00

RoHS IP66/67 Harsh Environment Multimode Duplex LC Cable Assemblies

L-com's IP66/67 rated Duplex LC cable assemblies are perfect for industrial networks and harsh environments where protection from moisture, chemicals, corrosive gases and liquids is essential. These rugged Multimode assemblies feature robust outdoor rated cable, which stands up to hostile environments. Each assembly is 100% functionally tested and is covered by a one year manufacturer warranty. Accessories sold separately include a bulkhead style adapter where one side is designed for standard LC fiber cable connection and the other will accept the industrial LC connector.

FODLC-IND-01	MM IP67 Fiber Cable, Dual LC / Dual LC, 1.0m	139.00
FODLC-IND-03	MM IP67 Fiber Cable, Dual LC / Dual LC, 3.0m	145.00
FODLC-IND-05	MM IP67 Fiber Cable, Dual LC / Dual LC, 5.0m	151.00
FODLC-IND-10	MM IP67 Fiber Cable, Dual LC / Dual LC, 10.0m	166.00

Item #	Description	1-9	10-24	25-99	100-249	250-499
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10 Gigabit Laser Optimized Multimode Fiber Optic Cables, 50/125 with OFNR Jackets

These revolutionary new fiber optic cables are constructed from the highest quality silica and are 100% factory tested. Connector options include SC and LC styles. Typically 10 Gigabit applications are run on 9/125 Single mode fibers, which require costly laser transceivers. By utilizing these fiber optic cables, users are able to implement high speed, low cost Multimode transceivers or VCSEL's (Vertical Cavity Surface Emitting Lasers) resulting in greater overall system cost savings. Custom lengths, connector combinations and polishes are available. Contact us today for details.

RoHS LC to LC Duplex 10 Gigabit Laser Optimized Multimode Fiber Optic Cables, 50/125 with OFNR Jacket

FODLC-10G-01	MM 10 Gig Fiber Cable, Dual LC / Dual LC, 1.0m	25.00	24.00	23.00	21.25	18.75
FODLC-10G-02	MM 10 Gig Fiber Cable, Dual LC / Dual LC, 2.0m	26.00	24.96	23.92	22.10	19.50
FODLC-10G-03	MM 10 Gig Fiber Cable, Dual LC / Dual LC, 3.0m	27.00	25.92	24.84	22.95	20.25
FODLC-10G-04	MM 10 Gig Fiber Cable, Dual LC / Dual LC, 4.0m	28.00	26.88	25.76	23.80	21.00
FODLC-10G-05	MM 10 Gig Fiber Cable, Dual LC / Dual LC, 5.0m	29.00	27.84	26.68	24.65	21.75

RoHS SC to SC Duplex 10 Gigabit Laser Optimized Multimode Fiber Optic Cables, 50/125 with OFNR Jacket

FODSC-10G-01	MM 10 Gig Fiber Cable, Dual SC / Dual SC, 1.0m	20.00	19.20	18.40	17.00	15.00
FODSC-10G-02	MM 10 Gig Fiber Cable, Dual SC / Dual SC, 2.0m	21.00	20.16	19.32	17.85	15.75
FODSC-10G-03	MM 10 Gig Fiber Cable, Dual SC / Dual SC, 3.0m	22.00	21.12	20.24	18.70	16.50
FODSC-10G-04	MM 10 Gig Fiber Cable, Dual SC / Dual SC, 4.0m	23.00	22.08	21.16	19.55	17.25
FODSC-10G-05	MM 10 Gig Fiber Cable, Dual SC / Dual SC, 5.0m	24.00	23.04	22.08	20.40	18.00

Military Grade 62.5/125 Fiber Optic Patch Cables

L-com's Military Grade fiber optic patch cables are built with specialized Military Tactical fiber cable that features impact and crush resistance characteristics which comply with Military requirements. Additionally, these robust assemblies are rated for operating temperatures of -40° to +75° Celsius. Three versions are available including Duplex ST, SC and LC styles. Our ST assemblies feature rust resistant stainless steel bodies and extra high force springs to ensure tight mating even when exposed to shock and vibration often encountered in the field under combat conditions.

ST to ST Duplex Military Grade Multimode Fiber Optic Cables, 62.5/125 with Polyurethane Jacket

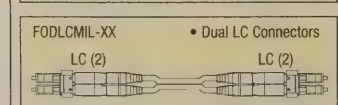
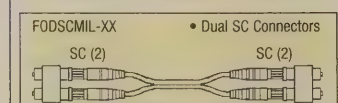
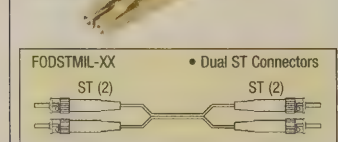
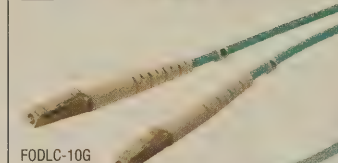
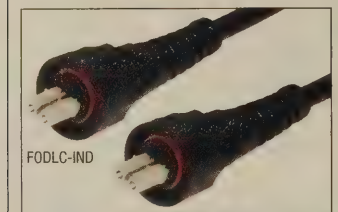
FODSTMIL-01	MM Military Grade Fiber Cable, Dual ST / Dual ST, 1.0m	62.00	59.52	57.04	52.70	46.50
FODSTMIL-02	MM Military Grade Fiber Cable, Dual ST / Dual ST, 2.0m	67.00	64.32	61.64	56.95	50.25
FODSTMIL-03	MM Military Grade Fiber Cable, Dual ST / Dual ST, 3.0m	72.00	69.12	66.24	61.20	54.00
FODSTMIL-05	MM Military Grade Fiber Cable, Dual ST / Dual ST, 5.0m	82.00	78.72	75.44	69.70	61.50
FODSTMIL-10	MM Military Grade Fiber Cable, Dual ST / Dual ST, 10.0m	107.00	102.72	98.44	90.95	80.25

SC to SC Duplex Military Grade Multimode Fiber Optic Cables, 62.5/125 with Polyurethane Jacket

FODSCMIL-01	MM Military Grade Fiber Cable, Dual SC / Dual SC, 1.0m	29.00	27.84	26.68	24.65	21.75
FODSCMIL-02	MM Military Grade Fiber Cable, Dual SC / Dual SC, 2.0m	34.00	32.64	31.28	28.90	25.50
FODSCMIL-03	MM Military Grade Fiber Cable, Dual SC / Dual SC, 3.0m	39.00	37.44	35.88	33.15	29.25
FODSCMIL-05	MM Military Grade Fiber Cable, Dual SC / Dual SC, 5.0m	49.00	47.04	45.08	41.65	36.75
FODSCMIL-10	MM Military Grade Fiber Cable, Dual SC / Dual SC, 10.0m	74.00	71.04	68.08	62.90	55.50

RoHS LC to LC Duplex Military Grade Multimode Fiber Optic Cables, 62.5/125 with Polyurethane Jacket

FODLCMIL-01	MM Military Grade Fiber Cable, Dual LC / Dual LC, 1.0m	39.00	37.44	35.88	33.15	29.25
FODLCMIL-02	MM Military Grade Fiber Cable, Dual LC / Dual LC, 2.0m	44.00	42.24	40.48	37.40	33.00
FODLCMIL-03	MM Military Grade Fiber Cable, Dual LC / Dual LC, 3.0m	49.00	47.04	45.08	41.65	36.75
FODLCMIL-05	MM Military Grade Fiber Cable, Dual LC / Dual LC, 5.0m	59.00	56.64	54.28	50.15	44.25
FODLCMIL-10	MM Military Grade Fiber Cable, Dual LC / Dual LC, 10.0m	84.00	80.64	77.28	71.40	63.00



Item #	Description	1-9	10-24	25-99	100-249	250-499
 Duplex SMI Plastic Optical Fiber Cable, 1.0mm						
Our POF (Plastic Optical Fiber) SMI to SMI Duplex patch cords are constructed of durable, RoHS compliant jackets and are available in multiple lengths. These assemblies feature the popular SMI style connector, which is being utilized in industrial data transmission, Local Area Networks, home networks and medical applications. These cables feature a 1.0mm Step Index PMMA plastic fiber and 2.2mm jacket OD. Contact us today with your custom length requirements.						
FODSMI-01	Duplex Plastic Optical Fiber Cable, SMI / SMI, 1.0m	19.95	19.15	18.35	17.56	16.76
FODSMI-03	Duplex Plastic Optical Fiber Cable, SMI / SMI, 3.0m	24.95	23.95	22.95	21.96	20.96
FODSMI-05	Duplex Plastic Optical Fiber Cable, SMI / SMI, 5.0m	26.95	25.87	24.79	23.72	22.64
FODSMI-10	Duplex Plastic Optical Fiber Cable, SMI / SMI, 10.0m	42.95	41.23	39.51	37.80	36.08
FODSMI-20	Duplex Plastic Optical Fiber Cable, SMI / SMI, 20.0m	59.95	57.55	55.15	52.76	50.36

Plastic Optical Fiber SMI Duplex Coupler

The POF (Plastic Optical Fiber) Duplex SMI coupler is great for connecting two or more POF SMI terminated cables together. These couplers are constructed of rugged PVC material and can be mounted in a panel or used as inline couplers.

PFOA-100	Plastic Fiber Optic SMI Duplex Coupler	16.00	15.68	15.36	15.04	14.72
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Toslink Fiber Optic Audio Cables with 2.2mm Jacket

These premium L-com Toslink cables feature the popular Toslink style connectors and provide optimal digital audio connectivity. These cables are perfect for connecting Toslink enabled devices such as DVD players, CD players and MP3 and DAT recorders that are equipped with standard Toslink style jacks. L-com's Toslink cables carry digital audio data in the form of light pulses, rather than using electricity thus eliminating the distortion caused by capacitance and resistance of traditional wire cables. The cables feature a 2.2mm outside cable diameter.

TOS-CBL-MM-03	Toslink Fiber Optic Audio Cables, Male / Male, 3 ft	5.50	5.17	4.84	4.51	4.18
TOS-CBL-MM-06	Toslink Fiber Optic Audio Cables, Male / Male, 6 ft	8.50	7.99	7.48	6.97	6.46
TOS-CBL-MM-12	Toslink Fiber Optic Audio Cables, Male / Male, 12 ft	12.25	11.51	10.78	10.05	9.31
TOS-CBL-MM-15	Toslink Fiber Optic Audio Cables, Male / Male, 15 ft	13.75	12.93	12.10	11.27	10.45

Toslink Fiber Optic Audio Cables with 3.5mm Mini-Plug and 2.2mm Jacket

These premium L-com Toslink cables feature the popular 3.5mm Mini-Plug Toslink connectors and provide optimal digital audio connectivity. These cables are perfect for connecting Toslink Mini-plug enabled devices such as DVD players, CD players and MP3 and DAT recorders that are equipped with 3.5mm mini-plug style jacks. L-com's Toslink cables carry digital audio data in the form of light pulses, rather than using electricity thus eliminating the distortion caused by capacitance and resistance of traditional wire cables. The cables feature a 2.2mm outside cable diameter.

MINITOS-MM-03	Mini-Toslink Fiber Optic Audio Cables, Male / Male, 3 ft	5.50	5.17	4.84	4.51	4.18
MINITOS-MM-06	Mini-Toslink Fiber Optic Audio Cables, Male / Male, 6 ft	8.50	7.99	7.48	6.97	6.46
MINITOS-MM-12	Mini-Toslink Fiber Optic Audio Cables, Male / Male, 12 ft	12.25	11.51	10.78	10.05	9.31
MINITOS-MM-15	Mini-Toslink Fiber Optic Audio Cables, Male / Male, 15 ft	13.75	12.93	12.10	11.27	10.45

Toslink Female to 3.5mm Mini-Plug Male Adapter

L-com's Toslink to Mini-Plug Toslink adapter is a cost effective and easy to use solution for converting a Toslink connector to a 3.5mm Mini-plug style connector. These adapters feature quality, rugged construction and can be used with standard Toslink cables. Contact us today for large project volume discounts.

ADPT-TOSF-MINIM	Toslink Female to Mini-Plug Male Adapter	1.25	1.17	1.10	1.02	0.95
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Item #	Description	List Price
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Plastic Optical Fiber (POF) Test Kit

The Advanced Fiber Solutions POF test kit is the perfect, portable solution for testing both plastic and glass optical fiber cables. The FTK51POF includes the OM110 power meter, which is designed for POF (plastic optical fiber) and short wavelength applications (visible and near infrared). The OM110 optimizes a Silicon detector suitable for large core fibers. It is the ideal tool for working with shorter wavelengths used with glass, plastic or multimode fibers. Additionally, the FTK51POF features the OS417-MD source which houses a 665nm LED in a modular adapter, which makes it adaptable to any connector style. Order this versatile test kit today!

FTK51POF	Plastic Optical Fiber Test Kit	899.00
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Planet 10/100TX -100FX POF SMI Media Converter

The Planet FT-807 is a 10/100Base-TX shielded twisted pair to POF (Plastic Optical Fiber) SMI Fast Ethernet 100Base-FX fiber converter. The 10/100TX connection employs a standard RJ45 interface and the 100FX connection features a SMI (Small Multimedia Interface) connector. The FT-807 auto-adapts to the highest level of performance supported by the device connected to the RJ45 STP port. The SMI port is designed for use with POF cables with a core size of 1.0mm. POF offers a low-cost, high-speed data transmission solution, which is also immune to RFI and EMI. The SMI interface meets the IEEE 1394b specification and can transmit data up to 50 meters. The maximum distance supported on the RJ45 port is 100 meters.

FT-807	Planet 10/100TX - 100FX POF SMI Media Converter	79.00
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Tip What are Plastic Optical Fiber Cables used for?

Plastic Optical Fiber cables experience high loss or attenuation and are used on short distance applications such as in cars, in airplanes and with high-end audio equipment such as DVD players, CD players and MP3 and DAT recorders. The low cost and ease of connection make Plastic Optical fiber the logical choice for these short distance applications.

Plastic Optical Fiber, like glass fiber is immune to lightning, and EMI and RFI. Using plastic fiber on high-end audio systems eliminates the distortion caused by capacitance and resistance of traditional wire audio cables, guaranteeing a "pure" sound.

Typical Applications for Plastic Fiber Optic Cables

Audio Equipment



Automobile Control Systems



Aircraft Control Systems



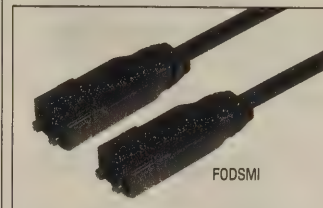
Anatomy of a Plastic Optical Cable



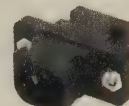
Core: Plastic fiber where light pulses travel through.

Cladding: Coating around the plastic core which keeps the light from escaping.

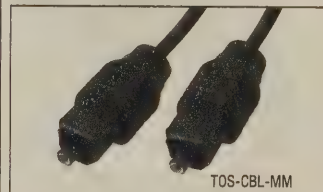
Jacket: Outer protective coating, typically PVC.



FODSMI



PFOA-100



TOS-CBL-MM



MINITOS-MM



ADPT-TOSF-MINIM



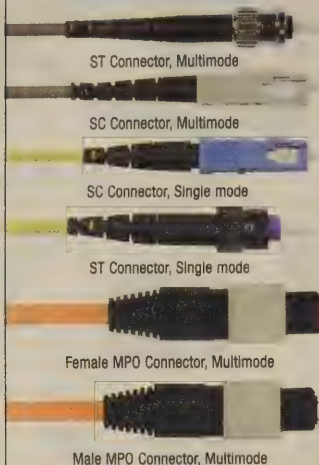
FTK51POF



FT-807

"The organization of your products on your website is the best I've ever seen from any company. Every product has links for info on the product and actual catalog pages. I especially liked the video tips showing installation info. Very impressive." - Greg D.

CONNECTOR LEGEND



MCST-SC-XX

• Dual ST and Dual SC Connectors



MCSC-SC-XX

• Dual SC and Dual SC Connectors



MCST-ST-XX

• Dual ST and Dual ST Connectors



MTPF06
MTPF12

MTPM06-ST

MTPM12-ST

MTPM06-SC

MTPM12-SC

FOA-012

Item #

Description

List Price

Optical Mode Conditioning Fiber Optic Cable Assemblies

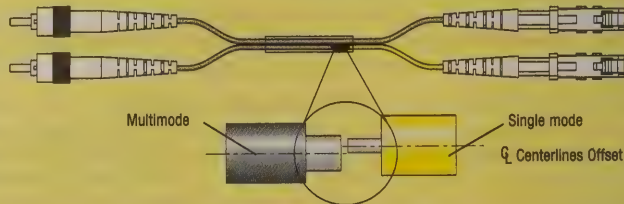
These cables are used to adapt the single mode output of Gigabit Ethernet(1000BASE-LX) transceivers to a multimode cable network. The cables are compliant with IEEE 802.3 and have applications in Local Area Networks, Telecommunication Systems and Metropolitan Area Systems. They feature rugged construction with a permanent low profile offset closure. Other fiber connectors and lengths are available as custom products. All cable measurements are in meters. 1m = 3.28 ft.



Tip What is mode conditioning?

Transceiver modules used in Gigabit Ethernet (1000BASE-LX) launch only single mode (1300 nm) long wave signals. This poses a problem if an existing fiber network utilizes multimode cable.

When a single mode signal is launched into a multimode fiber a phenomenon known as Differential Mode Delay (DMD) can create multiple signals within the multimode fiber. This effect can confuse the receiver and produce errors. Mode conditioning cables utilize an offset between the single mode fiber and the multimode fiber to eliminate DMD and the resulting multiple signals allowing use of 1000BASE-LX over existing multimode fiber cable systems.



9/125 to 62.5/125

L-com optical mode conditioning cable assemblies utilize OFNR rated riser jackets for fire retardation.

✓RoHS Dual ST to Dual SC Mode Conditioning Fiber Patch Cord with OFNR Jackets

MCST-SC-01	Mode Conditioning Fiber Cable, Dual ST / Dual SC, 1.0m	65.00
MCST-SC-02	Mode Conditioning Fiber Cable, Dual ST / Dual SC, 2.0m	66.00
MCST-SC-03	Mode Conditioning Fiber Cable, Dual ST / Dual SC, 3.0m	67.00
MCST-SC-04	Mode Conditioning Fiber Cable, Dual ST / Dual SC, 4.0m	68.00
MCST-SC-05	Mode Conditioning Fiber Cable, Dual ST / Dual SC, 5.0m	69.00

✓RoHS Dual SC to Dual SC Mode Conditioning Fiber Patch Cord with OFNR Jackets

MCSC-SC-01	Mode Conditioning Fiber Cable, Dual SC / Dual SC, 1.0m	65.00
MCSC-SC-02	Mode Conditioning Fiber Cable, Dual SC / Dual SC, 2.0m	66.00
MCSC-SC-03	Mode Conditioning Fiber Cable, Dual SC / Dual SC, 3.0m	67.00
MCSC-SC-04	Mode Conditioning Fiber Cable, Dual SC / Dual SC, 4.0m	68.00
MCSC-SC-05	Mode Conditioning Fiber Cable, Dual SC / Dual SC, 5.0m	69.00

✓RoHS Dual ST to Dual ST Mode Conditioning Fiber Patch Cord with OFNR Jackets

MCST-ST-01	Mode Conditioning Fiber Cable, Dual ST / Dual ST, 1.0m	65.00
MCST-ST-02	Mode Conditioning Fiber Cable, Dual ST / Dual ST, 2.0m	66.00
MCST-ST-03	Mode Conditioning Fiber Cable, Dual ST / Dual ST, 3.0m	67.00
MCST-ST-04	Mode Conditioning Fiber Cable, Dual ST / Dual ST, 4.0m	68.00
MCST-ST-05	Mode Conditioning Fiber Cable, Dual ST / Dual ST, 5.0m	69.00

MPO Multifiber Ribbon 62.5 Multimode Cable and Fanout Assemblies

These multifiber assemblies provide advantages in size offering 12 times the density when compared to the same size SC connector. Factory terminated and tested, this system provides significant installation time savings. A push-pull design is utilized for easy mating and removal. Fanout assemblies are ideal for making connections within rack mounted or wall mounted fiber enclosures that utilize single fiber connectors.

✓RoHS 6 or 12 MPO Female Fiber Ribbon 62.5 Multimode Cable with OFNR Jacket

MTPF06-25	6 Fiber Ribbon Cable, MPO Female / Female, 25.0m	129.00
MTPF06-50	6 Fiber Ribbon Cable, MPO Female / Female, 50.0m	199.00
MTPF06-100	6 Fiber Ribbon Cable, MPO Female / Female, 100.0m	349.00
MTPF12-25	12 Fiber Ribbon Cable, MPO Female / Female, 25.0m	159.00
MTPF12-50	12 Fiber Ribbon Cable, MPO Female / Female, 50.0m	249.00
MTPF12-100	12 Fiber Ribbon Cable, MPO Female / Female, 100.0m	429.00

✓RoHS 6 or 12 MPO Male ST Fiber Ribbon 62.5 Multimode Fanout Cable with OFNR Jacket

MTPM06-ST-05	6 Fiber Ribbon Fanout Cable, MPO Male / ST Male, 5.0m	75.00
MTPM06-ST-10	6 Fiber Ribbon Fanout Cable, MPO Male / ST Male, 10.0m	89.00
MTPM12-ST-05	12 Fiber Ribbon Fanout Cable, MPO Male / ST Male, 5.0m	110.00
MTPM12-ST-10	12 Fiber Ribbon Fanout Cable, MPO Male / ST Male, 10.0m	129.00

✓RoHS 6 or 12 MPO Male SC Fiber Ribbon 62.5 Multimode Fanout Cable with OFNR Jacket

MTPM06-SC-05	6 Fiber Ribbon Fanout Cable, MPO Male / SC Male, 5.0m	75.00
MTPM06-SC-10	6 Fiber Ribbon Fanout Cable, MPO Male / SC Male, 10.0m	89.00
MTPM12-SC-05	12 Fiber Ribbon Fanout Cable, MPO Male / SC Male, 5.0m	110.00
MTPM12-SC-10	12 Fiber Ribbon Fanout Cable, MPO Male / SC Male, 10.0m	129.00

Item #

Description

1-9

10-24

25-99

100-249 250-499

✓RoHS Coupler for MPO Connectors - Mates Two MPOs

Note: Use of this coupler requires one of the two mating connectors to have alignment pins.

FOA-012	Coupler for 4, 6, 8 or 12 Port Ferrule MPO Connectors	18.95	18.19	17.43	18.11	14.21
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Item #	Description	List Price
RoHS Multimode (62.5/125) Loopbacks - Utilizing SC, LC, FC and MT-RJ Connectors		
These handy assemblies are useful in a number of test applications. A generous yet manageable fiber loop virtually eliminates bend loss. FC Loopbacks do not contain a clip. Custom configurations will be considered in modest minimums. Please contact our sales representatives for assistance.		
FOL-SC	Fiber Loopback, SC, 62.5/125	12.95
FOL-LC	Fiber Loopback, LC, 62.5/125	14.95
FOL-FC	Fiber Loopback, FC, 62.5/125	12.95
FOL-MTRJ	Fiber Loopback, MT-RJ, 62.5/125	12.95
FOL-MTRJ-NP	Fiber Loopback, MT-RJ, 62.5/125, No Pins	11.95
RoHS Multimode (50/125) Loopbacks - Utilizing SC, LC, FC and MT-RJ Connectors		
FOL50-SC	Fiber Loopback, SC, 50/125	12.95
FOL50-LC	Fiber Loopback, LC, 50/125	14.95
FOL50-FC	Fiber Loopback, FC, 50/125	12.95
FOL50-MTRJ	Fiber Loopback, MT-RJ, 50/125	12.95
FOL50-MTRJ-NP	Fiber Loopback, MT-RJ, 50/125, No Pins	11.95
RoHS Single mode (9/125) Loopbacks - Utilizing FC, MU, LC and MT-RJ Connectors		
SFOL-FC	Fiber Loopback, FC, 9/125	13.95
SFOL-MU	Fiber Loopback, MU, 9/125	29.00
SFOL-LC	Fiber Loopback, LC, 9/125	18.95
SFOL-MTRJ	Fiber Loopback, MT-RJ, 9/125	13.95
SFOL-MTRJ-NP	Fiber Loopback, MT-RJ, 9/125, No Pins	12.95

RoHS Fiber Optic Wall Mount Patch Panel Cabinet

These wall mountable cabinets feature lockable double-hinged doors for security and easy field access. Constructed of rugged 16 gauge steel and finished in durable Beige powder coat finish. These cabinets accept the FSP series sub-panels and are available in two sizes to accommodate 12 or 24 ports.

FWP1200	12 Port Wall Mount Fiber Panel, 11.5"H x 8.5"W x 3.25"D	79.95
FWP2400	24 Port Wall Mount Fiber Panel, 12"H x 15"W x 3.5"D	129.00

RoHS Fiber Optic Rack Mount Patch Panel Enclosures

These rack mount enclosures feature interchangeable mounting brackets to accommodate both 19" and 23" rack mounting and come complete with front and rear cable management fixtures installed as well as front, rear and side access holes. Constructed of rugged 16 gauge steel and finished in durable Beige powder coat finish. These cabinets accept the FSP series sub-panels and are available in two sizes to accommodate 36 and 72 ports.

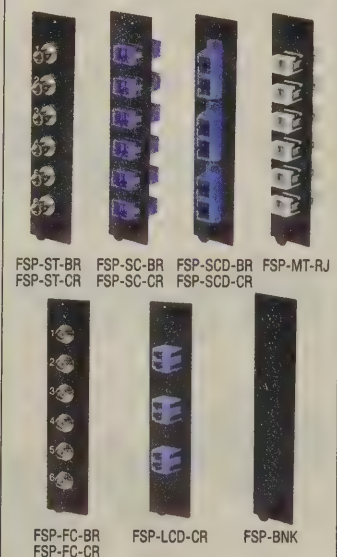
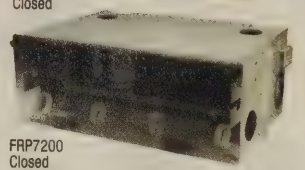
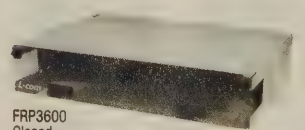
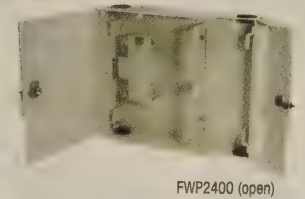
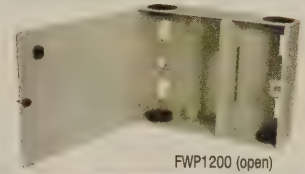
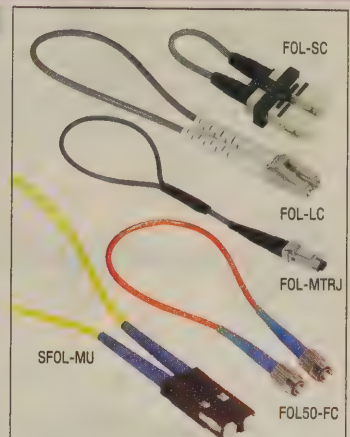
FRP3600	36 Port Rack Mount Fiber Panel, 3.5"H x 17"W x 12"D	149.00
FRP7200	72 Port Rack Mount Fiber Panel, 7"H x 17"W x 12"D	269.00

Item #	Description	1-9	10-24	25-99	100-249	250-499
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RoHS Fiber Optic Sub-panels - Populate Patch Panel Cabinets

These sub-panels are used to populate the FWP and FRP series Fiber Patch Panel Cabinets. Offered in a variety of connector types in both simplex and duplex configurations. Ceramic sleeve versions are primarily used in single mode applications while multimode applications typically utilize the bronze sleeve configuration. These units feature a Black finish with snap on mounting for easy installation and removal.

FSP-ST-BR	Fiber Sub-Panel, 6 ST Couplers, Bronze Sleeve	32.95	30.97	29.00	27.02	CALL
FSP-ST-CR	Fiber Sub-Panel, 6 ST Couplers, Ceramic Sleeve	44.95	42.25	39.56	36.86	CALL
FSP-SC-BR	Fiber Sub-Panel, 6 SC Simplex Couplers, Bronze Sleeve	50.95	47.89	44.84	41.78	CALL
FSP-SC-CR	Fiber Sub-Panel, 6 SC Simplex Couplers, Ceramic Sleeve	62.95	59.17	55.40	51.62	CALL
FSP-SCD-BR	Fiber Sub-Panel, 3 SC Duplex Couplers, Bronze Sleeve	32.95	30.97	29.00	27.02	CALL
FSP-SCD-CR	Fiber Sub-Panel, 3 SC Duplex Couplers, Ceramic Sleeve	44.95	42.25	39.56	36.86	CALL
FSP-MTRJ	Fiber Sub-Panel, 6 MT-RJ Couplers	50.95	47.89	44.84	41.78	CALL
FSP-FC-BR	Fiber Sub-Panel, 6 FC Couplers, Bronze Sleeve	62.95	59.17	55.40	51.62	CALL
FSP-FC-CR	Fiber Sub-Panel, 6 FC Couplers, Ceramic Sleeve	74.95	70.45	65.96	61.46	CALL
FSP-LCD-CR	Fiber Sub-Panel, 3 LC Duplex Couplers, Ceramic Sleeve	53.95	50.71	47.48	44.24	CALL
FSP-BNK	Blank Sub-Panel	7.95	7.47	7.00	6.52	CALL



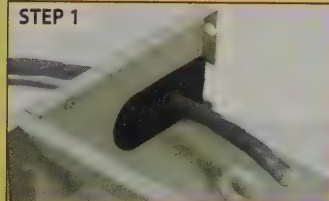
Fiber enclosures secure sub panels and cables



See The Video

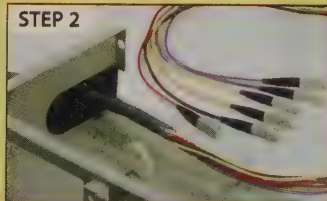
www.L-com.com/Videos/A08

STEP 1



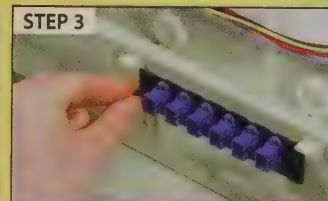
Feed distribution cable through entry point.

STEP 2



Connect distribution cable or prepare for use with splices.

STEP 3



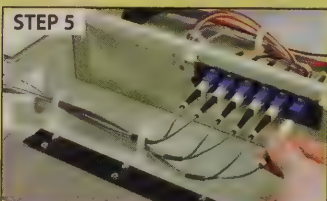
Install snap-in sub-panel with couplers.

STEP 4



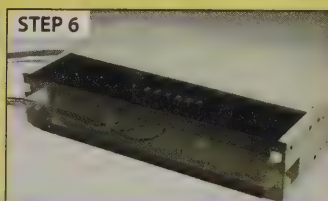
Route and attach feed cable to couplers.

STEP 5



Route and attach patching jumpers.

STEP 6



Re-install covers and faceplate.

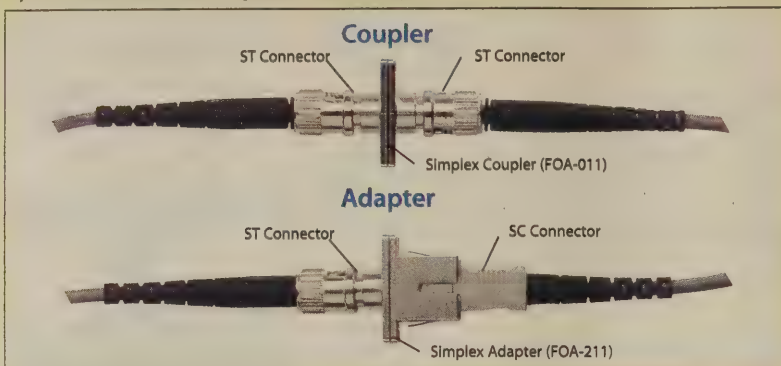
For more useful information go to...

www.L-com.com/Resources

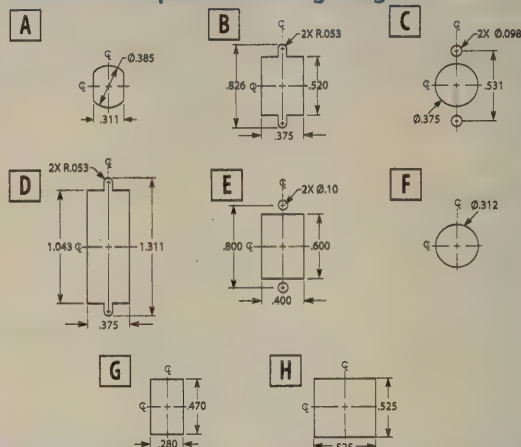
L-com Global Connectivity

Fiber Optic Couplers and Adapters

These devices are used to join together individual connectorized fiber assemblies. They are often used in a patch panel and are mounted on sub-panels. If the two fiber assemblies to be connected have the same style fiber connectors (ST to ST, SC to SC, etc.) then the connecting device is called a coupler. If the two fiber assemblies to be connected have different style connectors then the connecting device is called an adapter.

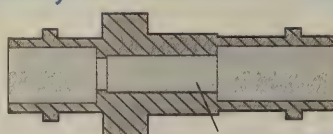


Common Adapter Mounting Diagrams



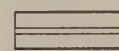
The alignment sleeve is the most critical component of a fiber optic adapter. Bronze sleeves are more durable but the precision is not as good as ceramic. Ceramic ferrules offer a more precise alignment, but they are somewhat less durable. Bronze alignment sleeves are commonly used in multimode applications where precision alignment is not as critical.

Cutaway Side View of ST-ST Coupler



Cavity for alignment sleeve

CERAMIC Alignment Sleeve



- Better alignment
- More expensive

BRONZE Alignment Sleeve



- Better durability
- Less expensive



Item #	Description	Body	Sleeve	Mtg. Code	1-9	10-24	25-99	100-249	250-499
✓RoHS ST to ST Simplex Fiber Optic Couplers									
FOA-001	Simplex ST Fiber Coupler	Metal	Bronze	A	3.00	2.88	2.76	2.55	2.25
FOA-001A	Simplex ST Fiber Coupler	Metal	Ceramic	A	5.00	4.80	4.60	4.25	3.75
FOA-011	Simplex ST Fiber Coupler	Metal	Bronze	B	3.00	2.88	2.76	2.55	2.25
FOA-011A	Simplex ST Fiber Coupler	Metal	Ceramic	B	5.00	4.80	4.60	4.25	3.75
✓RoHS ST to ST Duplex Fiber Optic Couplers									
FOA-401	Duplex ST Fiber Coupler	Metal	Bronze	D	5.00	4.80	4.60	4.25	3.75
FOA-401A	Duplex ST Fiber Coupler	Metal	Ceramic	D	10.00	9.60	9.20	8.50	7.50
✓RoHS SC to SC Simplex Fiber Optic Couplers									
FOA-002	Simplex SC Fiber Coupler	Plastic	Bronze	B	4.00	3.84	3.68	3.40	3.00
FOA-002A	Simplex SC Fiber Coupler	Plastic	Ceramic	B	5.50	5.28	5.06	4.68	4.13
FOA-002M	Simplex SC Fiber Coupler	Metal	Bronze	B	5.00	4.80	4.60	4.25	3.75
FOA-002MA	Simplex SC Fiber Coupler	Metal	Ceramic	B	7.50	7.20	6.90	6.38	5.63
✓RoHS SC to SC Duplex Fiber Optic Couplers									
FOA-005	Duplex SC Fiber Coupler	Plastic	Bronze	D	5.50	5.28	5.06	4.68	4.13
FOA-005A	Duplex SC Fiber Coupler	Plastic	Ceramic	D	8.00	7.68	7.36	6.80	6.00
FOA-005M	Duplex SC Fiber Coupler	Metal	Bronze	D	8.00	7.68	7.36	6.80	6.00
FOA-005MA	Duplex SC Fiber Coupler	Metal	Ceramic	D	10.00	9.60	9.20	8.50	7.50
✓RoHS FC to FC Simplex Fiber Optic Couplers									
FOA-003	Simplex FC Fiber Coupler	Metal	Bronze	C	6.50	6.24	5.98	5.53	4.88
FOA-003A	Simplex FC Fiber Coupler	Metal	Ceramic	C	9.50	9.12	8.74	8.07	7.13
FOA-013	Simplex FC Fiber Coupler	Metal	Bronze	B	6.50	6.24	5.98	5.53	4.88
FOA-013A	Simplex FC Fiber Coupler	Metal	Ceramic	B	9.50	9.12	8.74	8.07	7.13
FOA-033	Simplex FC Fiber Coupler	Metal	Bronze	A	6.50	6.24	5.98	5.53	4.88
FOA-033A	Simplex FC Fiber Coupler	Metal	Ceramic	A	9.50	9.12	8.74	8.07	7.13
✓RoHS SMA to SMA Fiber Optic Coupler									
FOA-004	SMA Fiber Coupler	Metal	None	F	19.95	18.75	17.56	16.36	15.16
✓RoHS LC to LC Simplex / Duplex Fiber Optic Couplers									
FOA-500A	Simplex LC Fiber Coupler	Plastic	Ceramic	G	9.95	9.55	9.15	8.46	7.46
FOA-550A	Duplex LC Fiber Coupler	Plastic	Ceramic	H	13.75	13.20	12.65	11.69	10.31
FOA-801	Duplex LC Fiber Coupler	Plastic	Ceramic	B	12.95	12.69	12.43	12.17	11.91
FOA-802	Duplex LC Fiber Coupler	Plastic	Bronze	B	5.95	5.83	5.71	5.59	5.47
FOA-803	Duplex LC Fiber Coupler	Plastic	Bronze	H	3.95	3.87	3.79	3.71	3.63
✓RoHS LC to LC Quad Fiber Optic Couplers									
FOA-580	Quad LC Fiber Coupler	Plastic	Bronze	D	15.95	15.31	14.67	13.56	11.96
FOA-570	Quad LC Fiber Coupler	Plastic	Ceramic	D	19.95	19.15	18.35	16.96	14.96
✓RoHS MT-RJ to MT-RJ Fiber Optic Coupler									
Use of this coupler requires one of the two mating MT-RJ connectors to contain alignment pins.									
FOA-600	MT-RJ Fiber Coupler	Plastic	None	B	4.00	3.84	3.68	3.40	3.00
✓RoHS MPO to MPO Fiber Optic Coupler									
FOA-012	MPO Fiber Coupler	Plastic	None	E	18.95	18.19	17.43	16.11	14.21

What is the difference between a fiber optic coupler and adapter?

Although the terms are sometimes interchanged, a coupler typically connects like connectors (i.e. SC to SC), while adapters connect different connectors (i.e. SC to FC).

Item #	Description	Body	Sleeve	Mtg. Code	1-9	10-24	25-99	100-249	250-499
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Fiber Optic APC Simplex and Duplex Couplers

In order to achieve low back reflection values some fiber assemblies utilize a connector with an Angled Polish Contact (APC). These APC connectors require special couplers that have tight tolerance alignment slots to assure proper orientation of the mated APC connectors. The APC couplers are specifically designed for this application.

RoHS SC to SC Simplex / Duplex APC Fiber Optic Couplers

FOA-017	Simplex SC APC Coupler	Plastic	Ceramic	B	10.00	9.60	9.20	8.50	7.50
FOA-018	Duplex SC APC Coupler	Plastic	Ceramic	D	18.50	17.76	17.02	15.73	13.88

RoHS FC to FC Simplex APC Fiber Optic Coupler

FOA-019	Simplex FC APC Coupler	Metal	Ceramic	A	15.00	14.40	13.80	12.75	11.25
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RoHS LC to LC Simplex / Duplex APC Fiber Optic Couplers, No Flange

FOA-804	Simplex LC APC Coupler	Plastic	Ceramic	G	13.95	13.39	12.83	11.86	10.46
FOA-805	Duplex LC APC Coupler	Plastic	Ceramic	H	14.95	14.35	13.75	12.71	11.21

Fiber Optic Simplex / Duplex Adapters

These fiber optic adapters are offered in both simplex and duplex configurations and in some cases with both plastic and metal bodies. Alignment sleeves of both bronze and ceramic are offered in most cases.

RoHS ST to SC Simplex Fiber Optic Adapters

FOA-201	Simplex ST-SC Fiber Adapter	Metal	Bronze	C	8.00	7.68	7.36	6.80	6.00
FOA-211	Simplex ST-SC Fiber Adapter	Metal	Bronze	B	5.00	4.80	4.60	4.25	3.75
FOA-211A	Simplex ST-SC Fiber Adapter	Metal	Ceramic	B	9.50	9.12	8.74	8.07	7.13

RoHS ST to SC Duplex Fiber Optic Adapters

FOA-006	Duplex ST-SC Fiber Adapter	Plastic	Ceramic	D	10.50	10.08	9.66	8.92	7.88
FOA-006M	Duplex ST-SC Fiber Adapter	Metal	Bronze	D	10.50	10.08	9.66	8.92	7.88
FOA-006MA	Duplex ST-SC Fiber Adapter	Metal	Ceramic	D	14.50	13.92	13.34	12.33	10.88

RoHS ST to FC Simplex Fiber Optic Adapters

FOA-301	Simplex ST-FC Fiber Adapter	Metal	Bronze	C	9.25	8.88	8.51	7.86	6.94
FOA-311	Simplex ST-FC Fiber Adapter	Metal	Bronze	B	3.50	3.36	3.22	2.98	2.63
FOA-311A	Simplex ST-FC Fiber Adapter	Metal	Ceramic	B	10.50	10.08	9.66	8.92	7.88

RoHS SC to FC Simplex Fiber Optic Adapter

FOA-302	Simplex SC-FC Fiber Adapter	Metal	Bronze	C	9.25	8.88	8.51	7.86	6.94
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RoHS LC to SC Simplex Fiber Optic Adapters

FOA-014	Simplex LC-SC Fiber Adapter	Plastic	Ceramic	B	42.00	41.16	40.32	39.48	38.64
FOA-020	Simplex LC-SC Fiber Adapter	Plastic	Bronze	B	32.00	31.36	30.72	30.08	29.44



Fiber Optic Coupler / Adapter Selection Matrix

Use this matrix to locate the fiber optic coupler or adapter with the desired interface combination and with the appropriate body and alignment sleeve material.

If a specific type is not listed, please visit our Web site at www.L-com.com for the latest information or call our technical support group at 800-343-1455 for assistance.

		SIMPLEX				DUPLEX				QUAD	
BODY MATERIAL											
ALIGNMENT SLEEVE MATERIAL											
COUPLERS	ST to ST	FOA-001 FOA-011	FOA-001A FOA-011A				FOA-401	FOA-401A			
	SC to SC	FOA-002M	FOA-002MA	FOA-002	FOA-002A FOA-017 (APC)		FOA-005M	FOA-005MA	FOA-005	FOA-005A FOA-018 (APC)	
	FC to FC	FOA-003 FOA-013 FOA-033	FOA-003A FOA-013A FOA-033A FOA-019 (APC)								
	SMA906 to SMA906			FOA-004							
	LC to LC				FOA-500A FOA-804 (APC)				FOA-802 FOA-803	FOA-550A FOA-805 (APC) FOA-801	FOA-560 FOA-570
	MT-RJ to MT-RJ MPO to MPO					FOA-600 FOA-012					
ADAPTERS	ST to SC	FOA-201 FOA-211	FOA-211A				FOA-006M	FOA-006MA		FOA-006	
	ST to FC	FOA-301 FOA-311	FOA-311A								
	SC to FC	FOA-302									
	SC to LC			FOA-020	FOA-014						



Reseller pricing

Your organization may be entitled to discounted pricing. L-com.com/Reseller



FOA-123



FOA-231

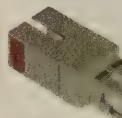
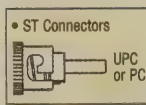


FOA-321

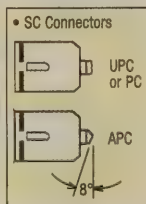
1310/1550nm ATTENUATORS



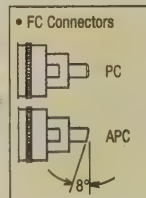
- ST Connectors
- PC Polish > 45db
- UPC Polish > 55db
- Operating Temperature: -40° - 70°C
- Dual Wavelength (1310/1550nm)



- SC Connectors
- PC Polish > 45db
- UPC Polish > 55db
- APC Polish > 65db
- Operating Temperature: -40° - 70°C
- Dual Wavelength (1310/1550nm)



- FC Connectors
- PC Polish > 45db
- UPC Polish > 55db
- APC Polish > 65db
- Operating Temperature: -40° - 70°C
- Dual Wavelength (1310/1550nm)



- LC Connectors
- UPC Polish > 55db
- Operating Temperature: -40° - 70°C
- Dual Wavelength (1310/1550nm)



Item #	Description	1-9	10-24	25-99	100-249	250-499
Fiber Optic Bulkhead Coupler Kit - Great for Tool Kits						
The FOA-123 Fiber Optic Bulkhead Coupler Kit comes complete with two ST-ST couplers (FOA-001), two SC-SC couplers (FOA-002), one FC-FC coupler (FOA-003) and a handy four compartment carrying case.						
FOA-123	Fiber Optic Bulkhead Coupler Kit	19.99	19.59	19.19	18.79	18.39

Fiber Optic Adapter Kit - Versatile and Handy

This kit contains commonly used fiber adapters in a convenient four compartment carrying case for easy storage. All fiber adapters are simplex and utilize a bronze alignment sleeve. This allows adapting between all the popular interfaces such as ST, SC and FC. Fiber adapter part numbers included in the kit are FOA-201 (ST-SC), FOA-301 (ST-FC) and FOA-302 (SC-FC).

FOA-231	Fiber Optic Adapter Kit	49.99	48.99	47.99	46.99	45.99
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Fiber Optic Coupler / Adapter Kit - Complete Flexibility

This kit contains one each of all the fiber couplers in FOA-123 and fiber adapters in FOA-231 plus FOA-004 (SMA-SMA), FOA-500A (LC-LC), FOA-701 (MU-MU), FOA-600 (MT-RJ-MT-RJ) and FOA-012 (MPO-MPO). This is the most complete kit of fiber adapters and couplers we offer allowing connections between all like interfaces and adapting from one style interface to another.

FOA-321	Fiber Optic Coupler / Adapter Kit	89.00	87.22	85.44	83.66	81.88
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Single mode Fiber Optic Attenuators - ST, SC, FC or LC Connectors

L-com offers a series of single mode (1310/1550 nm) fiber optic attenuators. Models listed feature simple and rugged structure utilizing ion doped fiber as the attenuating material. Choose from PC, UPC, or APC polish. Attenuation values other than those listed can be quoted on a custom basis.

RoHS Dual Wavelength Fiber Attenuators with ST Connectors, PC and UPC

FOATSTP-05D	Standard Fiber Attenuator, ST / PC, 5db	36.95	36.21	35.47	34.73	33.99
FOATSTP-10D	Standard Fiber Attenuator, ST / PC, 10db	36.95	36.21	35.47	34.73	33.99
FOATSTP-15D	Standard Fiber Attenuator, ST / PC, 15db	36.95	36.21	35.47	34.73	33.99
FOATSTP-20D	Standard Fiber Attenuator, ST / PC, 20db	36.95	36.21	35.47	34.73	33.99
FOATSTP-25D	Standard Fiber Attenuator, ST / PC, 25db	36.95	36.21	35.47	34.73	33.99
FOATSTU-05D	Premium Fiber Attenuator, ST / UPC, 5db	43.95	43.07	42.19	41.31	40.43
FOATSTU-10D	Premium Fiber Attenuator, ST / UPC, 10db	43.95	43.07	42.19	41.31	40.43
FOATSTU-15D	Premium Fiber Attenuator, ST / UPC, 15db	43.95	43.07	42.19	41.31	40.43
FOATSTU-20D	Premium Fiber Attenuator, ST / UPC, 20db	43.95	43.07	42.19	41.31	40.43
FOATSTU-25D	Premium Fiber Attenuator, ST / UPC, 25db	43.95	43.07	42.19	41.31	40.43

RoHS Dual Wavelength Fiber Attenuators with SC Connectors, PC, UPC and APC

FOATSCP-05D	Standard Fiber Attenuator, SC / PC, 5db	26.95	26.41	25.87	25.33	24.79
FOATSCP-10D	Standard Fiber Attenuator, SC / PC, 10db	26.95	26.41	25.87	25.33	24.79
FOATSCP-15D	Standard Fiber Attenuator, SC / PC, 15db	26.95	26.41	25.87	25.33	24.79
FOATSCP-20D	Standard Fiber Attenuator, SC / PC, 20db	26.95	26.41	25.87	25.33	24.79
FOATSCP-25D	Standard Fiber Attenuator, SC / PC, 25db	26.95	26.41	25.87	25.33	24.79
FOATSCU-05D	Premium Fiber Attenuator, SC / UPC, 5db	32.00	31.36	30.72	30.08	29.44
FOATSCU-10D	Premium Fiber Attenuator, SC / UPC, 10db	32.00	31.36	30.72	30.08	29.44
FOATSCU-15D	Premium Fiber Attenuator, SC / UPC, 15db	32.00	31.36	30.72	30.08	29.44
FOATSCU-20D	Premium Fiber Attenuator, SC / UPC, 20db	32.00	31.36	30.72	30.08	29.44
FOATSCU-25D	Premium Fiber Attenuator, SC / UPC, 25db	32.00	31.36	30.72	30.08	29.44
FOATSCA-05D	Precision Fiber Attenuator, SC / APC, 5db	29.00	28.42	27.84	27.26	26.68
FOATSCA-10D	Precision Fiber Attenuator, SC / APC, 10db	29.00	28.42	27.84	27.26	26.68
FOATSCA-15D	Precision Fiber Attenuator, SC / APC, 15db	29.00	28.42	27.84	27.26	26.68
FOATSCA-20D	Precision Fiber Attenuator, SC / APC, 20db	29.00	28.42	27.84	27.26	26.68
FOATSCA-25D	Precision Fiber Attenuator, SC / APC, 25db	29.00	28.42	27.84	27.26	26.68

RoHS Dual Wavelength Fiber Attenuators with FC Connectors

FOATFCP-05D	Standard Fiber Attenuator, FC / PC, 5db	29.00	28.42	27.84	27.26	26.68
FOATFCP-10D	Standard Fiber Attenuator, FC / PC, 10db	29.00	28.42	27.84	27.26	26.68
FOATFCP-15D	Standard Fiber Attenuator, FC / PC, 15db	29.00	28.42	27.84	27.26	26.68
FOATFCP-20D	Standard Fiber Attenuator, FC / PC, 20db	29.00	28.42	27.84	27.26	26.68
FOATFCP-25D	Standard Fiber Attenuator, FC / PC, 25db	29.00	28.42	27.84	27.26	26.68
FOATFCU-05D	Premium Fiber Attenuator, FC / UPC, 5db	36.95	36.21	35.47	34.73	33.99
FOATFCU-10D	Premium Fiber Attenuator, FC / UPC, 10db	36.95	36.21	35.47	34.73	33.99
FOATFCU-15D	Premium Fiber Attenuator, FC / UPC, 15db	36.95	36.21	35.47	34.73	33.99
FOATFCU-20D	Premium Fiber Attenuator, FC / UPC, 20db	36.95	36.21	35.47	34.73	33.99
FOATFCU-25D	Premium Fiber Attenuator, FC / UPC, 25db	36.95	36.21	35.47	34.73	33.99
FOATFCA-05D	Precision Fiber Attenuator, FC / APC, 5db	32.95	32.29	31.63	30.97	30.31
FOATFCA-10D	Precision Fiber Attenuator, FC / APC, 10db	32.95	32.29	31.63	30.97	30.31
FOATFCA-15D	Precision Fiber Attenuator, FC / APC, 15db	32.95	32.29	31.63	30.97	30.31
FOATFCA-20D	Precision Fiber Attenuator, FC / APC, 20db	32.95	32.29	31.63	30.97	30.31
FOATFCA-25D	Precision Fiber Attenuator, FC / APC, 25db	32.95	32.29	31.63	30.97	30.31

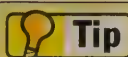
RoHS Dual Wavelength Fiber Attenuators with LC Connectors

FOATLCU-05D	Premium Fiber Attenuator, LC / UPC, 5db	49.95	48.95	47.95	46.95	45.95
FOATLCU-10D	Premium Fiber Attenuator, LC / UPC, 10db	49.95	48.95	47.95	46.95	45.95
FOATLCU-15D	Premium Fiber Attenuator, LC / UPC, 15db	49.95	48.95	47.95	46.95	45.95
FOATLCU-20D	Premium Fiber Attenuator, LC / UPC, 20db	49.95	48.95	47.95	46.95	45.95
FOATLCU-25D	Premium Fiber Attenuator, LC / UPC, 25db	49.95	48.95	47.95	46.95	45.95



What are attenuators used for?

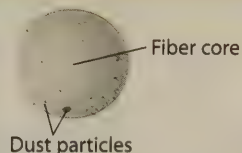
In some cases an optical light source can overload a detector to the point where it cannot distinguish between the presence or absence of light pulses. An attenuator can reduce the amount of light thereby eliminating the problem. Attenuators are also used to control the distribution ratio in the construction of TREE TYPE topology systems.

**Tip**

Avoid the number one cause of fiber optic network failure

In fiber optic networks, the number one cause of network failure is not cable breakage. It is actually dirty or damaged connectors.

In a fiber optic coupling, connectors are in physical contact with each other. Picture a small rock placed between two pieces of glass and then pressed together. This is similar to what a particle of dust is in relation to the glass fiber. Below are images of common problems found on connectors installed in the field.

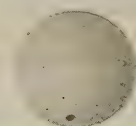


Note: One of the dust particles is larger than the fiber in the center of the connector. This dust, if it covered the fiber, would completely block the light from passing through.

Connectors need to be cleaned before any connection is made. If the cable is disconnected, it needs to be cleaned again. This is a simple process especially with the Senko SMART Cleaner. Just insert the cleaner into the port and then use the same cleaner on the cable connector.

Before Cleaning

After Cleaning



Item #	Description	1-9	10-24	25-99	100-249	250-499
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Fiber Optic Cleaner for SC, FC, and ST Connectors

The Senko Fiber Optic Cleaner for SC, FC and ST simplex connections is a dry cloth cleaner specially designed to clean single fiber connectors. The dust cap of the cleaner acts as an adapter for cleaning unmated connectors. The FOC-SC250 Fiber Optic Cleaner is simple, easy to use and highly effective at removing oil and dust contaminants that can inhibit optical performance.

FOC-SC250	Fiber Optic Cleaner for SC, FC and ST Connectors	69.95	CALL	CALL	CALL	CALL
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Fiber Optic Cleaner for LC and MU Connectors

Working with LC connectors often means technicians are faced with a high volume of the connectors, making it difficult to get in between to service and clean them. Using Senko's Fiber Optic Cleaner specifically made to be used with LC connectors is the perfect solution with its thin, extendable shaft that can easily get into hard to reach areas.

FOC-SC125	Fiber Optic Cleaner for LC and MU Connectors	69.95	CALL	CALL	CALL	CALL
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RoHS HELLERMANN-TYTON Fiberclean- Fiber Optic Connector Cleaning System

This is a convenient, economical and easy to use cleaning dispenser system for your fiber optic connectors. This hand held device exposes a portion of "ultra white", non-woven, lint free material sufficient to clean up to six connectors. Used cleaning material is dispensed out of the back of the unit. Up to 400 connectors can be cleaned with a single dispenser.

F01	Fiberclean Dispenser with Cleaning Film	19.50	18.33	17.16	15.99	CALL
F01REF	Fiberclean Cleaning Film Refills	15.15	14.24	13.33	12.42	CALL

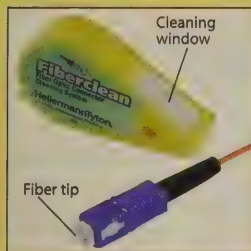
Keep fiber cables clean to maintain performance



See The Video

www.L-com.com/Videos/A05

It is critically important for fiber optic connectors to be free of dust and dirt to maintain optimum performance. A simple and effective way to do this is to clean the ends of your fiber optic cables often when they are disconnected, as illustrated.

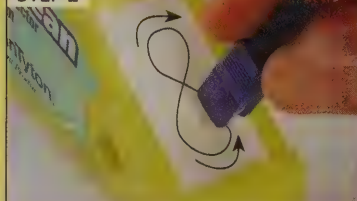


STEP 1

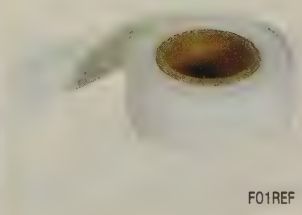


Softly press fiber tip in cleaning window using a figure 8 motion.

STEP 2



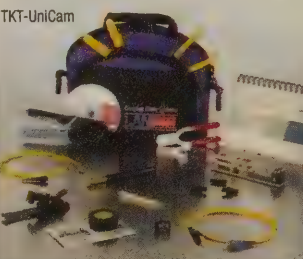
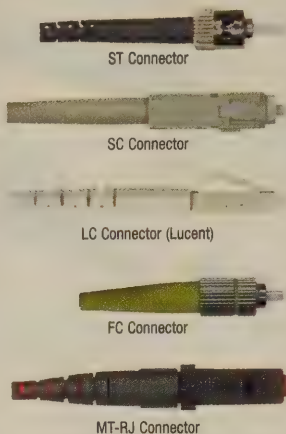
Repeat 3 times, inspecting fiber tip for cleanliness.



For more useful information go to....
www.L-com.com/Resources

L-com Global Connectivity

Lightcrimp and UniCam connectors offer easy termination without polishing.



Item #	Description	1-9	10-24	25-99	100-249	250-499
Corning UniCam™ No Epoxy, No Polish Connectors - Fast and Easy Termination						
The UniCam connector is the ideal solution for all your field-installation multimode or single mode fiber optic connector requirements. The zero polish quick installation reduces the total installed cost of connection, making the UniCam connector cost-effective for all fiber applications. UniCam connectors are available in common connector configurations. Installation kit includes everything necessary to get started terminating ST, SC, FC and MT-RJ UniCam connectors.						
F0C-9500050	Fiber Connector, UniCam ST Male, 62.5/125 Multimode	18.75	18.38	18.00	17.63	17.25
F0C-9505051	Fiber Connector, UniCam ST Male, 50/125 Multimode	19.25	18.86	18.48	18.10	17.71
F0C-9500040	Fiber Connector, UniCam SC Male, 62.5/125 Multimode	18.75	18.38	18.00	17.63	17.25
F0C-9505041	Fiber Connector, UniCam SC Male, 50/125 Multimode	18.75	18.38	18.00	17.63	17.25
F0C-9500098	Fiber Connector, UniCam LC Male, 62.5/125 Multimode	25.00	24.50	24.00	23.50	23.00
F0C-9505098	Fiber Connector, UniCam LC Male, 50/125 Multimode	25.00	24.50	24.00	23.50	23.00
F0C-9500061	Fiber Connector, UniCam FC Male, 50 and 62.5/125 Multimode	21.00	20.58	20.16	19.74	19.32
F0C-9200197P	Fiber Connector, UniCam MT-RJ Male, 62.5/125 Multimode	21.00	20.58	20.16	19.74	19.32
F0C-9205197P	Fiber Connector, UniCam MT-RJ Male, 50/125 Multimode	21.00	20.58	20.16	19.74	19.32
F0C-9520051	Fiber Connector, UniCam ST SPC Male, Single mode	25.00	24.50	24.00	23.50	23.00
F0C-9520042	Fiber Connector, UniCam SC UPC Male, Single mode	26.50	25.97	25.44	24.91	24.38
F0C-9520061	Fiber Connector, UniCam FC SPC Male, Single mode	25.00	24.50	24.00	23.50	23.00
F0C-9520062	Fiber Connector, UniCam FC UPC Male, Single mode	26.50	25.97	25.44	24.91	24.38
F0C-9520098	Fiber Connector, UniCam LC UPC Male, Single mode	30.00	29.40	28.80	28.20	27.60
TKT-UNICAM	UniCam Tooling Kit for ST, SC, FC, MT-RJ, LC	799.00	783.02	767.04	751.06	735.08

Miller® Fiber Optic Scribes - Diamond and Carbide Tips

Two scribes are available for preparing fiber optic cable. The DS-90W is a professional tool utilizing a diamond tipped 90° wedge and retractable (pen-like) barrel. The CS-30W is an economical carbide tipped scribe for the more occasional user.

DS-90W	Diamond Fiber Optic Scribe, 90° Wedge	95.00	93.10	91.20	89.30	87.40
CS-30W	Carbide Fiber Optic Scribe, 30° Wedge	32.00	31.36	30.72	30.08	29.44

Safety Glasses - A Must When Cutting or Scribing Fiber

FOT-SG1	Safety Glasses	8.00	7.84	7.68	7.52	7.36
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Fiber Optic Safety Kit - A Necessity When Terminating Fiber

The FS-9500 is a must for personal protection during fiber termination. Included in the kit is a black rollup work mat which holds polishing plate in place and helps identify fiber splinters and a pair of quality safety glasses. Also included are a fiber scrap trash can, 1 splinter removal tweezer and 10 bifurcated cleaning swipes.

FS-9500	Fiber Safety Kit with Glasses	35.99	35.27	34.55	33.83	33.11
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Tip

Multimode, Single mode, Laser Optimized ... What does it all mean?

In today's world of fiber optics many choices are available when choosing fiber optic cable types. Depending on the type of fiber cable and transceiver specification, different distances are supported per technology (i.e. 100Base FX, 1 Gigabit, 10 Gigabit etc.)

Size of the fiber core, bandwidth requirements and transceiver wavelengths (i.e. 850nm, 1550nm) are some of the considerations when designing a network with fiber.

The chart below outlines some common specifications for fiber optic cables including bandwidth and typical maximum distances.

Always check the manufacturer's transceiver specifications for the equipment you are buying fiber optic cables for.

100 Mbps Ethernet over Fiber		
	Bandwidth (MHz/km)	Typical Distance
	850nm/1300nm	
62.5/125	200/500	2km
50/125	500/500	2km
	1310nm/1550nm	
9/125	>100K Gigahertz	100km

1 Gig Ethernet over Fiber		
	Bandwidth (MHz/km)	Typical Distance
	850nm/1300nm	
62.5/125	200/500	220 meters
50/125	500/500	550 meters
	1310nm/1550nm	
9/125	>100K Gigahertz	70km

10 Gig Ethernet over Fiber		
	Bandwidth (MHz/km)	Typical Distance
	850nm/1300nm	
62.5/125	200/500	35 Meters
50/125	500/500	65 Meters
50/125 Laser Optimized	2000/500	300 meters
	1310nm/1550nm	
9/125	>100K Gigahertz	40km



Item #	Description	1-9	10-24	25-99	100-249
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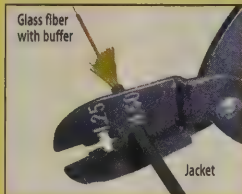
Miller® Fiber Optic Termination Tools - Highest Quality at Affordable Prices

L-com is pleased to distribute Miller® fiber optic tools. We chose Miller for their reputation in the industry for high quality tools that are affordable. All tools are made in the U.S.A. and are fully guaranteed against defects in workmanship or material.

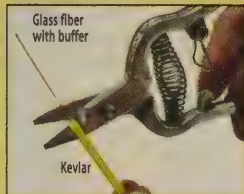

Tip

How to use fiber optic termination tools

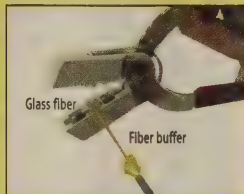
There are a number of commonly used tools that are utilized to terminate a fiber optic cable with a connector. Below are illustrations of how each of these tools is used.



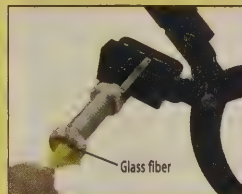
The fiber optic jacket stripper (FJS-3) is used to remove the fiber optic cable outer jacket.



The Kevlar shears (86-12SF) are used to trim back the Kevlar strength member commonly found in breakout fiber cable.



The fiber optic stripper strips the buffer coating that protects the fiber. A number of strippers are available for various fiber sizes.



The fiber optic cleaver (CC-125) is used to trim the glass fiber accurately. A cleanly cleaved fiber is essential for optimum performance.

Miller® Fiber Optic Jacket Stripper

The Miller Fiber jacket stripper and cutter was designed to strip and cut 26-16 AWG (.40-1.3 mm) wire sizes. This economical and easy to use tool is a must for fiber installers.

FJS-3	Fiber Optic Jacket Stripper	9.95	CALL	CALL	CALL
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Miller® High Leverage Kevlar® Shears - Cut Teflon Easily

With a non-slip serrated blade, this tool provides the solution for trimming back the DuPont Kevlar® that serves as the central strength member in optical fiber. The tool is made of hot-forged, high carbon steel for long life. It has a quick action spring response so the tool is ready when you are. Its high leverage provides a powerful cutting action.

86-12SF	Kevlar Shears with Cushioned Grip	20.00	19.60	19.20	18.80
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Miller® No-Nik Fiber Optic Strippers - Strips Buffer Coating

No-Nik fiber optic strippers meet the most stringent specifications. When used properly, they are 100% reliable! Plastic heads, which make contact only with the buffer, center and support your work on both sides. Cutting blades made from razor quality steel score the buffer completely. Back-up blades support the cutting blades, nest positively and lock up when the tool is closed to maintain perfect concentricity. Buffer being removed acts as guide and protection for the fiber. Color-coded handles ensure proper tool selection, quickly and easily. **Note:** The NN-203 is the most popular choice for 125 micron fiber.

NN-152	No-Nik Stripper, 152 µm Min. Dia. Strip (Gold)	29.50	27.73	25.96	24.19
NN-175	No-Nik Stripper, 175 µm Min. Dia. Strip (Mustard)	29.50	27.73	25.96	24.19
NN-203	No-Nik Stripper, 203 µm Min. Dia. Strip (Red)	29.50	27.73	25.96	24.19
NN-254	No-Nik Stripper, 254 µm Min. Dia. Strip (Lt. Blue)	29.50	27.73	25.96	24.19
NN-305	No-Nik Stripper, 305 µm Min. Dia. Strip (White)	29.50	27.73	25.96	24.19

Miller® Comfort Fit Fiber Optic Stripper - Cuts Jacket Plus Strips Buffer Coating

This tool has a 1.0mm radiused blade and a 140µm V blade specifically designed for stripping jacket and buffer from 125 micron fiber. Ergonomically designed handle reduces user fatigue.

CFS-2	Comfort Fit Fiber Optic Stripper	28.00	27.44	26.88	26.32
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Miller® Fiber Optic Safety Cleaver - Holds Cleaved Fiber for Disposal

The CC-125 is a professional tool that cleaves fiber consistently and accurately. It accommodates glass fibers with 125µm nominal cladding diameters. An additional safety feature is that cleaved fiber splinters are stored within the tool for proper disposal. Carbide blade is conservatively rated at 1000 uses.

CC-125	Fiber Optic Safety Cleaver	225.00	220.50	216.00	211.50
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Fiber Optic Consumables - Commonly Used Fiber Optic Cleaning Components

Cleaning fiber optic connections is crucial for proper optical transmission. Compressed air is great for cleaning couplers and connector ends. Kimwipes are lint free tissues, commonly used for cleaning glass surfaces.

FOC-CA	Compressed Air, 12 oz. can	9.95	9.35	8.76	8.16
FOC-KN	4.5" x 8.5" Box Kimwipes, 280 count	3.95	3.71	3.48	3.24
FOC-AP	Pre-moistened Alcohol Pads, 20 count	7.95	7.47	7.00	6.52
FOC-CS	3" Cotton Tipped Swabs, 100 count	17.99	17.63	17.27	16.91

Fiber Optic Pulling Eye for Duplex Cable Assemblies

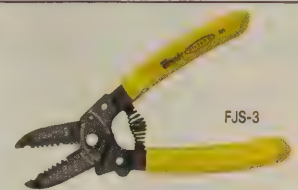
A pulling eye is used to protect the terminated end of fiber cable assemblies when pulling through walls or ceilings. 16" long x 0.75" diameter plastic tube fits most cables with two connectors.

FOC-EYE	Dual Fiber Pulling Eye	26.95	25.33	23.72	22.10
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RoHS Duplex Clips for SC Connectors

These handy duplex clips can be used to join two individual SC connectors together to become a duplex assembly. These one piece clips simply snap into place securely connecting the two individual connectors together. These clips can be used on virtually any simplex SC connector and can be removed and reattached as needed.

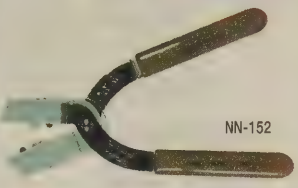
FOC-SC	SC Duplex Clip	1.75	1.61	1.47	1.33
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FJS-3



86-12SF



NN-152



CFS-2



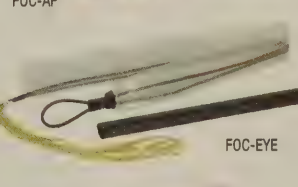
CC-125



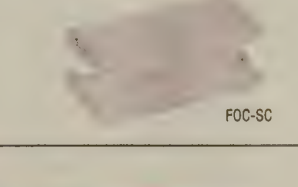
FOC-CA



FOC-KN



FOC-AP



FOC-EYE



FOC-SC

"I really like the extra information you put in your catalogs. The Q&A, the diagrams and the information on fiber and CAT5 have proved quite useful." - Caleb R.

Patch Panels / Racks NEMA Enclosures



Patch Panels / Racks Tutorial

What are racks, enclosures and patch panels?

Racks, enclosures and patch panels are typically constructed of steel, sheet metal and plastic and are used to secure and organize cables and communications equipment in a data center.

How are racks, enclosures and patch panels used?

Patch panels are screwed in to the racks and enclosures. Patch panels are populated with couplers and adapters of various types which allow connection points for patch cables.

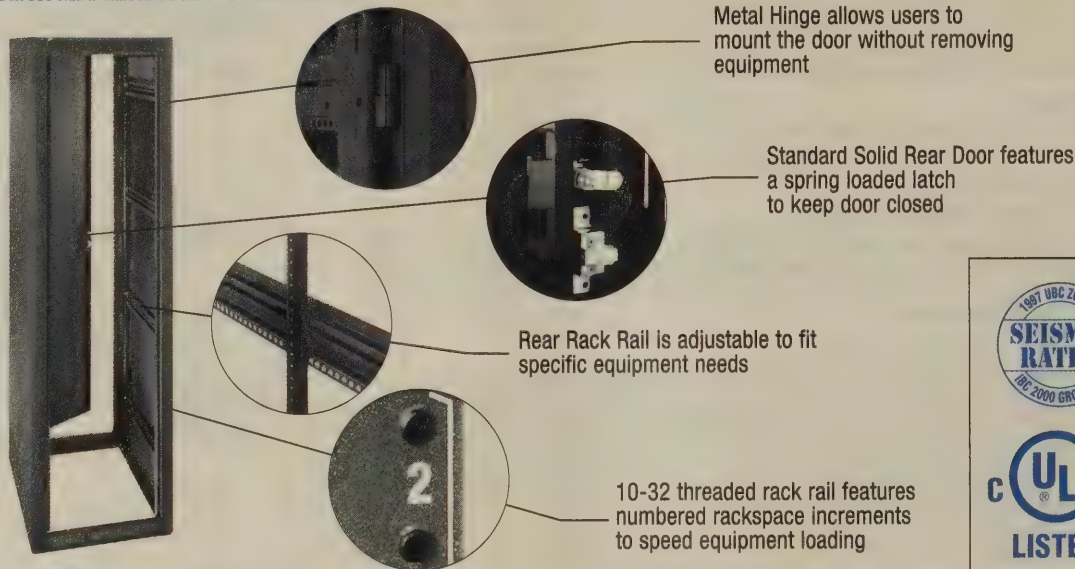
Where are racks, enclosures and patch panels used?

Racks, enclosures and patch panels are mostly used in data closets and larger data centers and are used by commercial business, governments, the military and many other industries.



For more useful information go to....
www.L-com.com/Resources

Rack and Enclosure Construction



Seismic Rated to Uniform Building Code Zone 4 for up to 1,000 lbs of equipment when installed with WRK-Z4 Mounting Bracket



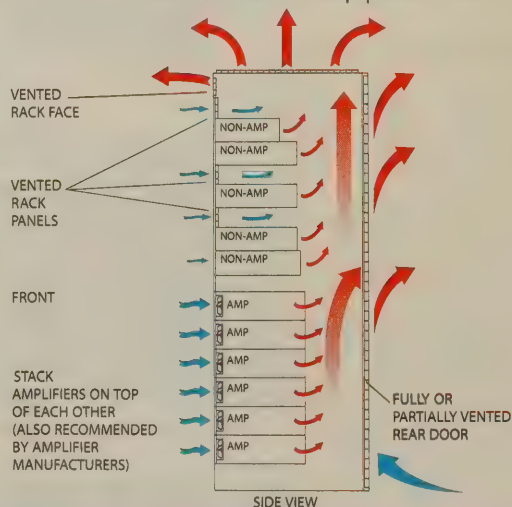
Enclosures are UL Listed with a weight capacity of up to 2,500 lbs



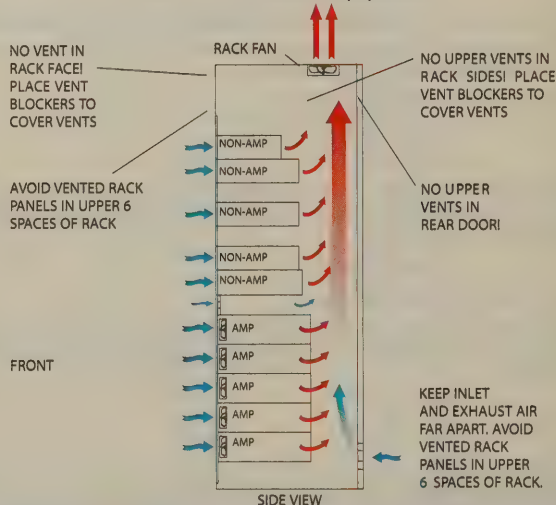
The racks and enclosures manufactured by Middle Atlantic Products have been designed specifically to address both the needs of the equipment that is being mounted, as well as to address any limitations or restrictions of the jobsite. In addition, these racks are contractor-friendly and have been designed with many essential time-saving features.

Thermal Management Best Practices

PROPER PASSIVE CONVECTION with front-intakes on equipment



PROPER FORCED AIR with front-intakes on equipment



WRKSA Series



- 2,500 lb. weight capacity
- Keylocked solid rear door standard
- 2 extra-wide pairs of 10-32 threaded rackrail standard
- Rackrail features cable pass-through openings in face
- Seismic certified (UBC Zone 4) for protecting 1,000 lbs of essential equipment when used in conjunction with the WRK-Z4 brackets
- Generous 24.25" OD width provides room for cables

WRK Series



- Fully welded construction, open sides
- 2,500 lb weight capacity
- Seismic certified (1994 UBC for seismic zone 4) for protecting 1,000 lbs of essential equipment when used in conjunction with the WRK-Z4 brackets
- Generous 24.25" OD width provides room for cables
- 2 extra-wide pairs of 10-32 threaded rackrail standard
- Grounding and bonding stud installed in base
- Keylocked solid rear door standard

DRK Series



- 30" OD width, 31 1/2", 36" and 42" OD depth
- Fully welded construction provides a 2,500 lb weight capacity
- Seismic certified (UBC 1997 & CBC 1998 Zone 4; IBC 2000, IBC 2003, ASCE7-01, NFPA 5000 Seismic Use Group III) for protecting 750 lbs of essential equipment when used in conjunction with the MRK-Z4 brackets
- Vented rear door standard
- 1/8" thick structural steel internal braces includes 100 rack screws
- Grounded and bonding stud installed in base

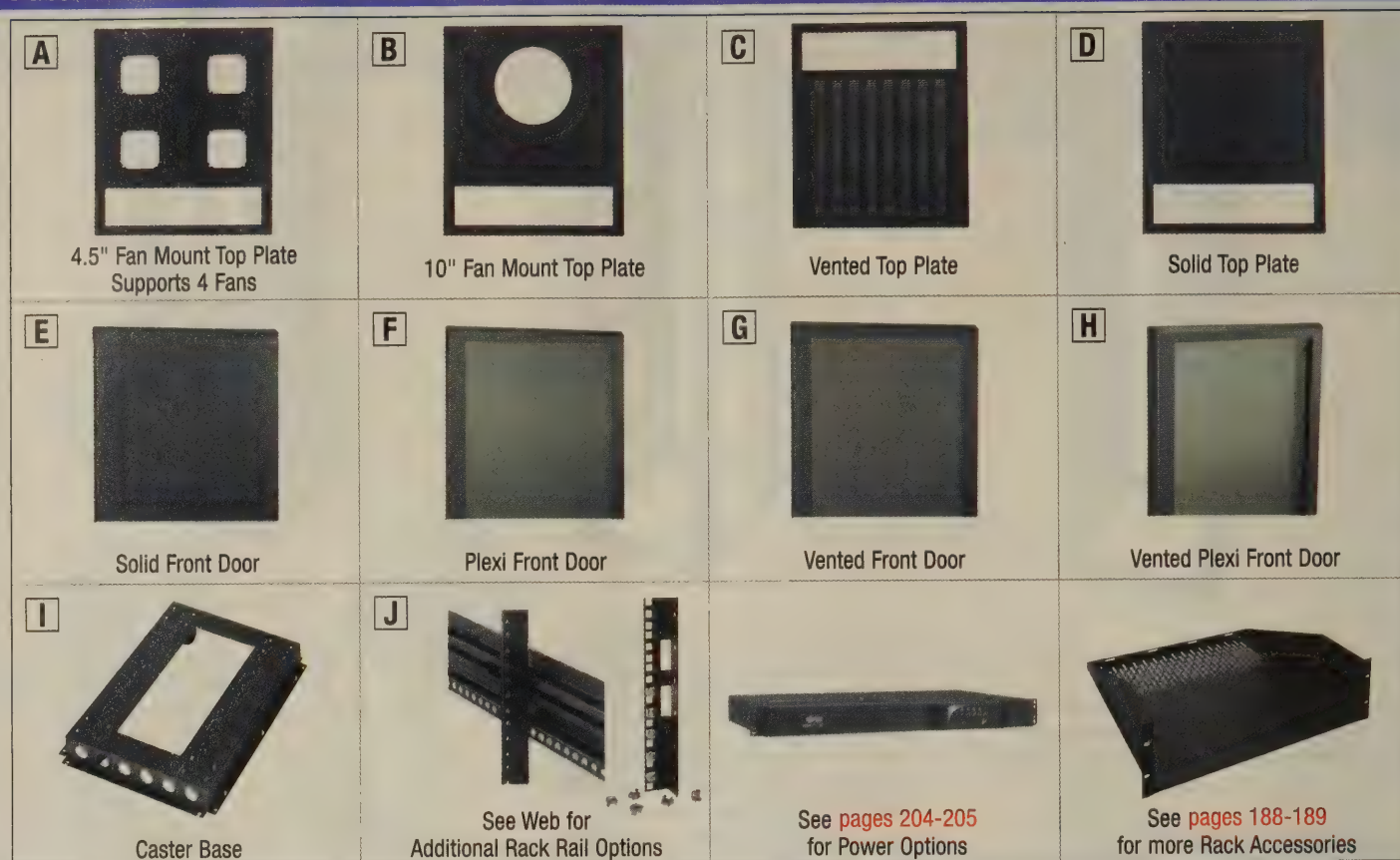
Item #	Racking Height	Overall Height	Shipping Weight	1-9	10-24	25-49	100-249
RoHS 27 1/2" Outside Depth (25 3/4") Free Standing Enclosure with Side Panels							
WRKSA-4427	77" (44 Space)	83 1/8"	226 lbs	899.32	854.36	800.40	773.42
WRKSA-4027	70" (40 Space)	76 1/8"	212 lbs	872.05	828.45	776.12	749.96
WRKSA-3727	64 3/4" (37 Space)	70 7/8"	202 lbs	817.55	776.67	727.62	703.09
WRKSA-2427	42" (24 Space)	48 1/8"	146 lbs	717.63	681.75	638.69	617.16
WRKSA-4427LRD*	77" (44 Space)	83 1/8"	195 lbs	817.55	776.67	727.62	703.09
*Enclosure does not include rear door							
RoHS 32 1/2" Outside Depth (30 3/4") Free Standing Enclosure with Side Panels							
WRKSA-4432	77" (44 Space)	83 1/8"	250 lbs	971.98	923.38	865.07	835.91
WRKSA-4032	70" (40 Space)	76 1/8"	234 lbs	890.23	845.71	792.30	765.59
WRKSA-3732	64 3/4" (37 Space)	70 7/8"	218 lbs	872.05	828.45	776.12	749.96
WRKSA-2432	42" (24 Space)	48 1/8"	164 lbs	781.21	742.15	695.28	671.84
WRKSA-4432LRD*	77" (44 Space)	83 1/8"	212 lbs	890.23	845.71	792.30	765.59
*Enclosure does not include rear door							
RoHS 27 1/2" Outside Depth (25 3/4") Gangable Enclosure without Side Panels							
WRK-4427	77" (44 Space)	83 1/8"	176 lbs	872.05	828.45	776.12	749.96
WRK-4027	70" (40 Space)	76 1/8"	168 lbs	844.82	802.58	751.89	726.55
WRK-3727	64 3/4" (37 Space)	70 7/8"	160 lbs	790.29	750.78	703.36	679.65
WRK-2427	42" (24 Space)	48 1/8"	124 lbs	699.45	664.48	622.51	601.53
WRK-4427LRD*	77" (44 Space)	83 1/8"	152 lbs	790.29	750.78	703.36	679.65
*Enclosure does not include rear door							
RoHS 32 1/2" Outside Depth (30 3/4") Gangable Enclosure without Side Panels							
WRK-4432	77" (44 Space)	83 1/8"	181 lbs	899.32	854.36	800.40	773.42
WRK-4032	70" (40 Space)	76 1/8"	184 lbs	862.97	819.82	768.04	742.15
WRK-3732	64 3/4" (37 Space)	70 7/8"	178 lbs	826.65	785.31	735.71	710.91
WRK-2432	42" (24 Space)	48 1/8"	138 lbs	744.90	707.66	662.96	640.62
WRK-4432LRD*	77" (44 Space)	83 1/8"	161 lbs	817.55	776.67	727.62	703.09
*Enclosure does not include rear door							
RoHS DRK Series 31 1/2", 36" and 42" Deep Enclosures with Vented Rear Door							
DRK19-44-31	77" (44 Space)	83 1/8"	195 lbs	1299.84	1234.85	1156.86	1117.86
DRK19-44-31PRO	77" (44 Space)	83 1/8"	195 lbs	1358.92	1290.97	1209.44	1168.67
DRK19-44-36	77" (44 Space)	83 1/8"	220 lbs	1439.71	1367.72	1281.34	1238.15
DRK19-44-36PRO	77" (44 Space)	83 1/8"	220 lbs	1498.73	1423.79	1333.87	1288.90
DRK19-44-42	77" (44 Space)	83 1/8"	240 lbs	1598.76	1518.82	1422.89	1374.93
DRK19-44-42PRO	77" (44 Space)	83 1/8"	240 lbs	1657.34	1574.47	1475.03	1425.31

Same day shipping

Orders placed before 4:00 EST ship the same day.

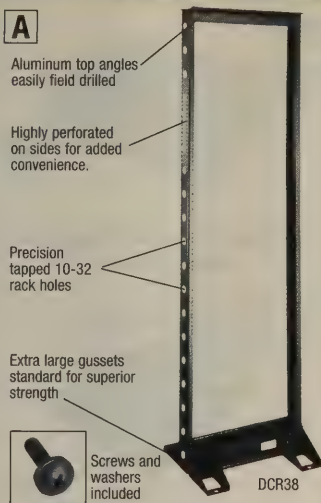


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Item #	Code	Description	Shipping Weight	1-9	10-24	25-49	100-249
✓RoHS Top Plate Options - For WRKSA, WRK and DRK Series Enclosures							
MW-4FT	A	Top Plate with 4 cutouts for 4 1/2" Fans	13 lbs	39.95	37.95	35.56	34.36
MW-10FT	B	Top Plate with 10" Fan Cutout	11 lbs	39.95	37.95	35.56	34.36
MW-VT	C	Vented Top Plate	12 lbs	39.95	37.95	35.56	34.36
MW-ST	D	Solid Top Plate	12 lbs	39.95	37.95	35.56	34.36
✓RoHS Solid Front Door Options - For WRKSA and WRK Series Enclosures							
FD-44	E	Solid Front Door for 77" Enclosures	52 lbs	189.24	179.78	168.43	162.75
FD-40	E	Solid Front Door for 70" Enclosures	46 lbs	183.58	174.40	163.39	157.88
FD-37	E	Solid Front Door for 64 3/4" Enclosures	44 lbs	177.87	168.98	158.31	152.97
FD-24	E	Solid Front Door for 42" Enclosures	23 lbs	141.92	134.82	126.31	122.05
✓RoHS Plexi Front Door Options - For WRKSA and WRK Series Enclosures							
PFD-44	F	Plexi Front Door for 77" Enclosures	58 lbs	426.90	405.56	379.94	367.14
PFD-40	F	Plexi Front Door for 70" Enclosures	52 lbs	399.06	379.11	355.17	343.20
PFD-37	F	Plexi Front Door for 64 3/4" Enclosures	50 lbs	375.85	357.06	334.51	323.24
PFD-24	F	Plexi Front Door for 42" Enclosures	19 lbs	247.48	235.11	220.26	212.84
✓RoHS Vented Front Door Options - For WRKSA and WRK Series Enclosures							
VFD-44	G	Vented Front Door for 77" Enclosures	48 lbs	283.87	269.68	252.65	244.13
VFD-40	G	Vented Front Door for 70" Enclosures	44 lbs	261.18	248.12	232.45	224.61
VFD-37	G	Vented Front Door for 64 3/4" Enclosures	38 lbs	246.02	233.72	218.95	211.57
VFD-24	G	Vented Front Door for 42" Enclosures	20 lbs	198.73	188.79	176.87	170.90
✓RoHS Vented Plexi Front Door Options - For WRKSA and WRK Series Enclosures							
PVFD-44	H	Vented Plexi Front Door for 77" Enclosures	50 lbs	553.55	525.87	492.66	476.05
✓RoHS Caster Base Options - For WRKSA and WRK Series Enclosures							
CBS-WRK-27	I	Caster Base for 27" Depth Enclosures 1300 lbs Capacity	24 lbs	121.47	115.39	108.11	104.46
CBS-WRK-32	I	Caster Base for 32" Depth Enclosures 1300 lbs Capacity	27 lbs	135.85	129.06	120.91	116.84
✓RoHS Rack Rail Options - For WRKSA and WRK Series Enclosures							
WRK-RR44	J	Rail Kit, 10-32 Threads, 44U WRK Series Enclosures	20 lbs	88.94	84.49	79.15	76.48
WRK-RR40	J	Rail Kit, 10-32 Threads, 40U WRK Series Enclosures	17.3 lbs	83.27	79.11	74.11	71.62
WRK-RR37	J	Rail Kit, 10-32 Threads, 37U WRK Series Enclosures	15 lbs	77.61	73.73	69.08	66.75
WRK-RR24	J	Rail Kit, 10-32 Threads, 24U WRK Series Enclosures	12 lbs	69.98	66.48	62.29	60.19

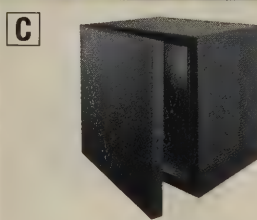




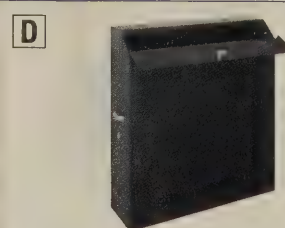
Relay or Frame Racks



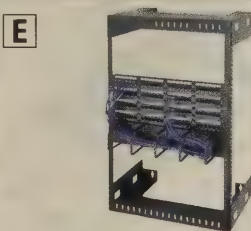
Wall Mount Pivoting Rack Cabinets



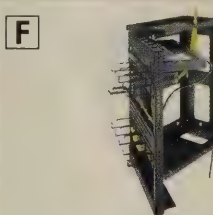
Wall Mount Rack Cabinets



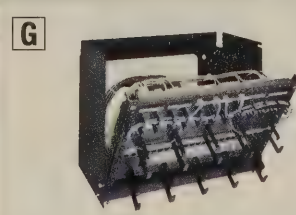
Low Profile Wall Mount Rack Enclosures



Wall Mountable Relay Racks



Swing Gate Wall Rack



Pivoting Panel Mount Cabinet

Item #	Code	Description	Spaces	Height	Shipping Weight	1-9	10-24	25-99	100-249
RoHS 19" Relay/Frame Racks – Rugged Telecom Equipment and Patch Panel Mounting									
For the highest quality rack system choose the Middle Atlantic 19" Relay Rack. Constructed with 11-gauge 10-32 threaded steel side channels, this rack can handle up to 400lbs of equipment and cabling. Incorporating a self-squaring, self-leveling design greatly reduces assembly time. Unique gusseted base means no shimming on uneven floors.									
DCR38	A	19" Relay Rack Kit	38	72.0 in	36 lbs	193.16	183.50	171.91	166.12
DCR45	A	19" Relay Rack Kit	45	84.0 in	38 lbs	204.87	194.63	182.34	176.19

RoHS 19" Wall Mount Pivoting Rack Cabinets with Security Door

The DWR series wall mount pivoting rack cabinets allow users an ideal method for securing equipment in a compact, lockable wall cabinet. The Wall Mount Pivoting Rack Cabinets feature fully welded construction with heavy-duty hinges for supporting heavy electronics. With abundant cable lacing points, cable pathways and proper cable bend radius can be maintained throughout the cabinet. Cabinet is shipped fully assembled with a plexiglass front door.

DWR-1017PD	B	19" Wall Mount Pivoting Rack Cabinet	10	17.50 in	86 lbs	473.10	449.44	421.06	406.86
DWR-1617PD	B	19" Wall Mount Pivoting Rack Cabinet	16	28.00 in	110 lbs	583.15	553.99	519.00	501.50
DWR-2417PD	B	19" Wall Mount Pivoting Rack Cabinet	24	42.00 in	138 lbs	741.44	704.36	659.88	637.63

RoHS 19" Wall Mount Rack Cabinets

The SBX series wall mount rack cabinets feature standard 18-gauge all steel construction and a removable backpan for simpler wall mounting. The backpan and cabinet top/bottom have laser cut electrical knockouts for easier cable installation. A locking front door secures valuable equipment inside and swings a full 180 degrees on a heavy-duty hinge allowing easy access to equipment.

SBX-7	C	19" Wall Mount Rack Cabinet	7	12.25 in	46 lbs	258.95	246.00	230.47	222.70
SBX-10	C	19" Wall Mount Rack Cabinet	10	17.50 in	50 lbs	312.26	296.65	277.91	268.54

RoHS 19" Low Profile Wall Mounted Rack Enclosures

The low profile wall mounted rack enclosures offer a secure housing for rackmountable equipment up to 23" in depth. The top cover is keyed separately from the hinged door providing user access to equipment controls while restricting access to rear connections within the enclosure. Enclosures are available in 4-8U rack heights and support up to 150lbs.

WRS-4	D	19" Low Profile Wall Mounted Rack Enclosure	4	7.00 in	50 lbs	307.40	292.03	273.59	264.37
WRS-6	D	19" Low Profile Wall Mounted Rack Enclosure	6	10.50 in	60 lbs	318.85	302.91	283.78	274.22
WRS-8	D	19" Low Profile Wall Mounted Rack Enclosure	8	14.00 in	65 lbs	359.73	341.74	320.16	309.36

RoHS Wall Mountable 19" Relay Racks - Great for Telecom Equipment

These wall mountable relay racks are especially useful when a stand up 19" rack can't be used due to floor space limitations. Units come in 12" or 18" depths and various rack heights. Rugged steel construction and Black powder coat finish. Rack screws included.

WM812	E	12" Deep Wall Mount Rack	8	14.00 in	18 lbs	122.26	116.15	108.81	105.14
WM1512	E	12" Deep Wall Mount Rack	15	26.25 in	19 lbs	125.84	119.55	112.00	108.22
WM3012	E	12" Deep Wall Mount Rack	30	52.50 in	28 lbs	147.44	140.06	131.22	126.79
WM818	E	18" Deep Wall Mount Rack	8	14.00 in	23 lbs	140.23	133.21	124.80	120.59
WM1518	E	18" Deep Wall Mount Rack	15	26.25 in	23 lbs	152.81	145.17	136.00	131.41
WM3018	E	18" Deep Wall Mount Rack	30	52.50 in	28 lbs	170.81	162.27	152.02	146.89

RoHS 19" Swing Gate Wall Racks - Sturdy, Effective Wall or Corner Mounting Device

These swing gate wall racks are available in two heights with 12" and 18" depths. Rails are 10-32 thread with standard EIA hole spacing. Nominal 150lb. capacity. They have convenient tie points and velcro loops for maximum internal cable management. EIA, TIA, RETMA compliant.

DSGR12-12	F	12" Deep Swing Gate Rack	12	24.50 in	35 lbs	215.76	204.97	192.02	185.55
DSGR20-12	F	12" Deep Swing Gate Rack	20	38.50 in	42 lbs	240.34	228.32	213.90	206.69
DSGR12-18	F	18" Deep Swing Gate Rack	12	24.50 in	38 lbs	259.95	246.95	231.36	223.56
DSGR20-18	F	18" Deep Swing Gate Rack	20	38.50 in	44 lbs	274.40	260.68	244.22	235.99

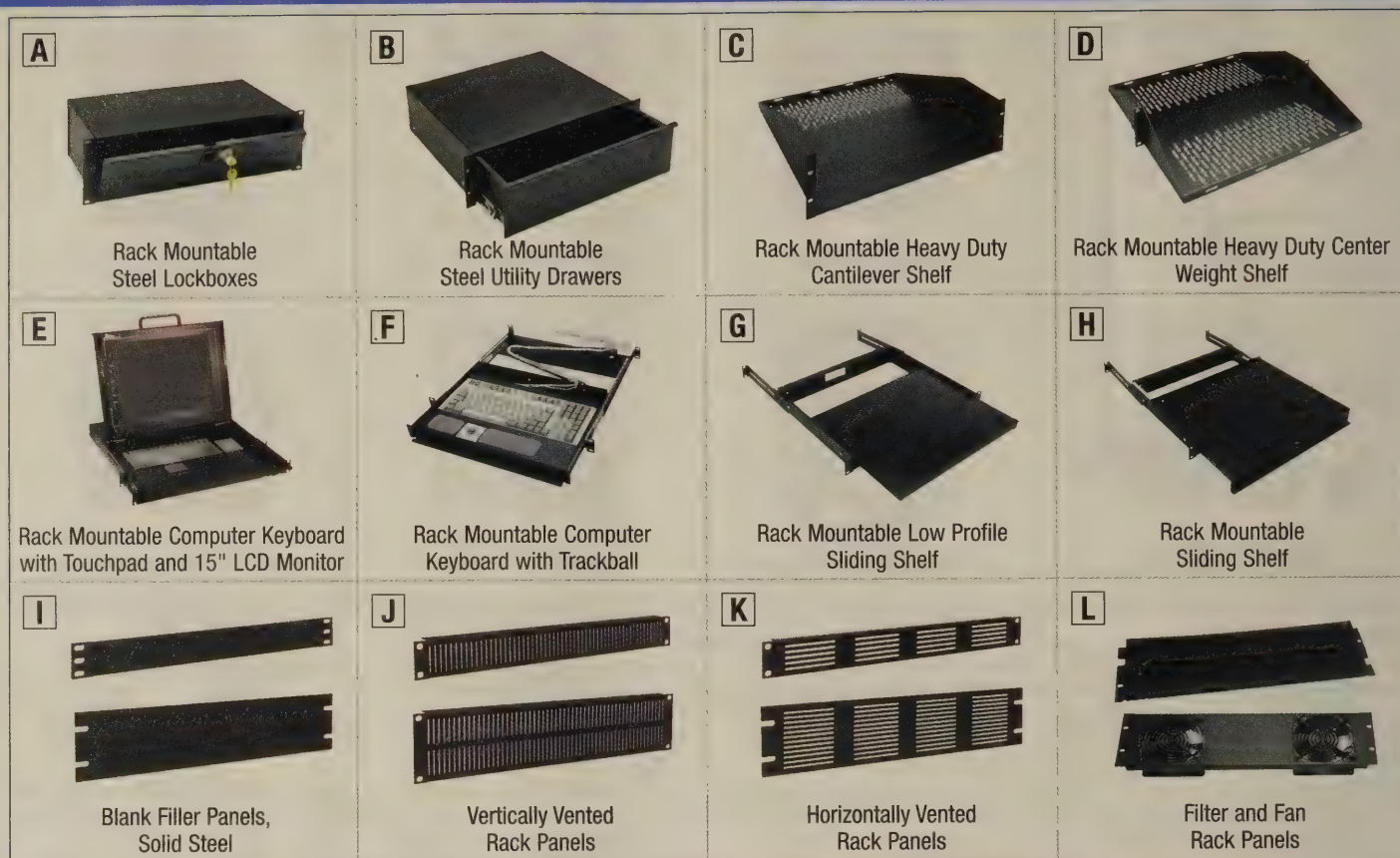
RoHS 19" Pivoting Panel Mount Cabinets - Handy Wall Mounting Allows Rear Access

Conserve valuable floor space with these pivoting panel mount cabinets. The pivoting feature allows punching down while fully open. Rails are tapped 10-32 with standard EIA hole spacing. Available in four basic heights and 6" or 12" depth. Other features include: numerous cable tie points and velcro cable loops. Made of .060" steel and .125" thick tapped rails.

DPPM2	G	6" Pivoting Panel Wall Mount Cabinet	2	3.50 in	8 lbs	62.47	59.34	55.60	53.72
DPPM4	G	6" Pivoting Panel Wall Mount Cabinet	4	7.00 in	10 lbs	71.92	68.32	64.01	61.85
DPPM6	G	6" Pivoting Panel Wall Mount Cabinet	6	10.50 in	12 lbs	77.61	73.73	69.08	66.75
DPPM6-12	G	12" Pivoting Panel Wall Mount Cabinet	6	10.50 in	19 lbs	128.69	122.26	114.54	110.68
DPPM8-12	G	12" Pivoting Panel Wall Mount Cabinet	8	14.00 in	21 lbs	138.15	131.24	122.95	118.80

Custom design and manufacturing capabilities

Our product design process takes you from concept to production. L-com.com/Custom



Item #	Code	Description	Spaces	Height	Shipping Weight	1-9	10-24	25-99	100-249
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RoHS 19" Steel Lockboxes - 9" Depth Allows Rack Mountable Security

Safely secure gear in the LBX series of lockboxes. 3 and 4 rack space models are available, both are 9" deep. Black powder coat finish.

LBX-3	A	19" Rack Mountable Lockbox	3	5.25 in	11 lbs	76.02	72.22	67.65	65.37
LBX-4	A	19" Rack Mountable Lockbox	4	7.00 in	12 lbs	82.63	78.50	73.54	71.06

RoHS 19" Steel Utility Drawer in 2, 3 and 4 Rack Space Heights

These steel utility drawers are available in two, three and four rack space heights for storing equipment and supplies. Full extension ball bearing slides smoothly extending to a full 14" (inside dimensions 15⁷/₈" x 14¹/₂"). Knockouts in rear allow cable pass through. Black powder coat finish.

UD-2	B	19" Rack Mountable Utility Drawer	2	3.50 in	16 lbs	99.97	94.97	88.97	85.97
UD-3	B	19" Rack Mountable Utility Drawer	3	5.25 in	19 lbs	106.44	101.11	94.73	91.53
UD-4	B	19" Rack Mountable Utility Drawer	4	7.00 in	21 lbs	122.63	116.50	109.14	105.46

RoHS 3¹/₂" and 5¹/₄" High (2 and 3 Rack Spaces) Heavy Duty Shelves for 19" Racks

Two heavy duty shelves are available for 19" rack panels. Cantilever shelf is 17" deep and occupies three rack spaces vertically. The center weight shelf is 18" long in total and occupies two rack spaces vertically. Both shelves have vented bottoms. Color: Matte Black.

U317	C	19" Rack Mountable Heavy Duty Cantilever Shelf, 17" Dp.	3	5.25 in	10 lbs	58.68	55.74	52.22	50.46
U2MS	D	19" Rack Mountable Heavy Duty Center Weight Shelf, 18" Dp.	2	3.50 in	9 lbs	62.47	59.34	55.60	53.72

RoHS 19" Rackmount Slide-Away Computer Keyboard Systems

The rackmount computer keyboard systems occupy only 1³/₄" (1 space) and feature a high quality keyboard with built in trackball or a touchpad with 15" LCD monitor. The LCD version allows users to slide the keyboard in while still viewing the monitor screen. A built in cable support arm provides secure cable management.

RMKB-LCD15	E	19" Rackmount Comp. Keyboard, Touchpad, 15" LCD Monitor	1	1.75 in	30 lbs	2226.95	2115.60	1981.99	1915.18
RM-KB	F	19" Rackmount Computer Keyboard with Trackball	1	1.75 in	16 lbs	395.45	375.68	351.95	340.09

RoHS 19" Rackmount Sliding Shelves

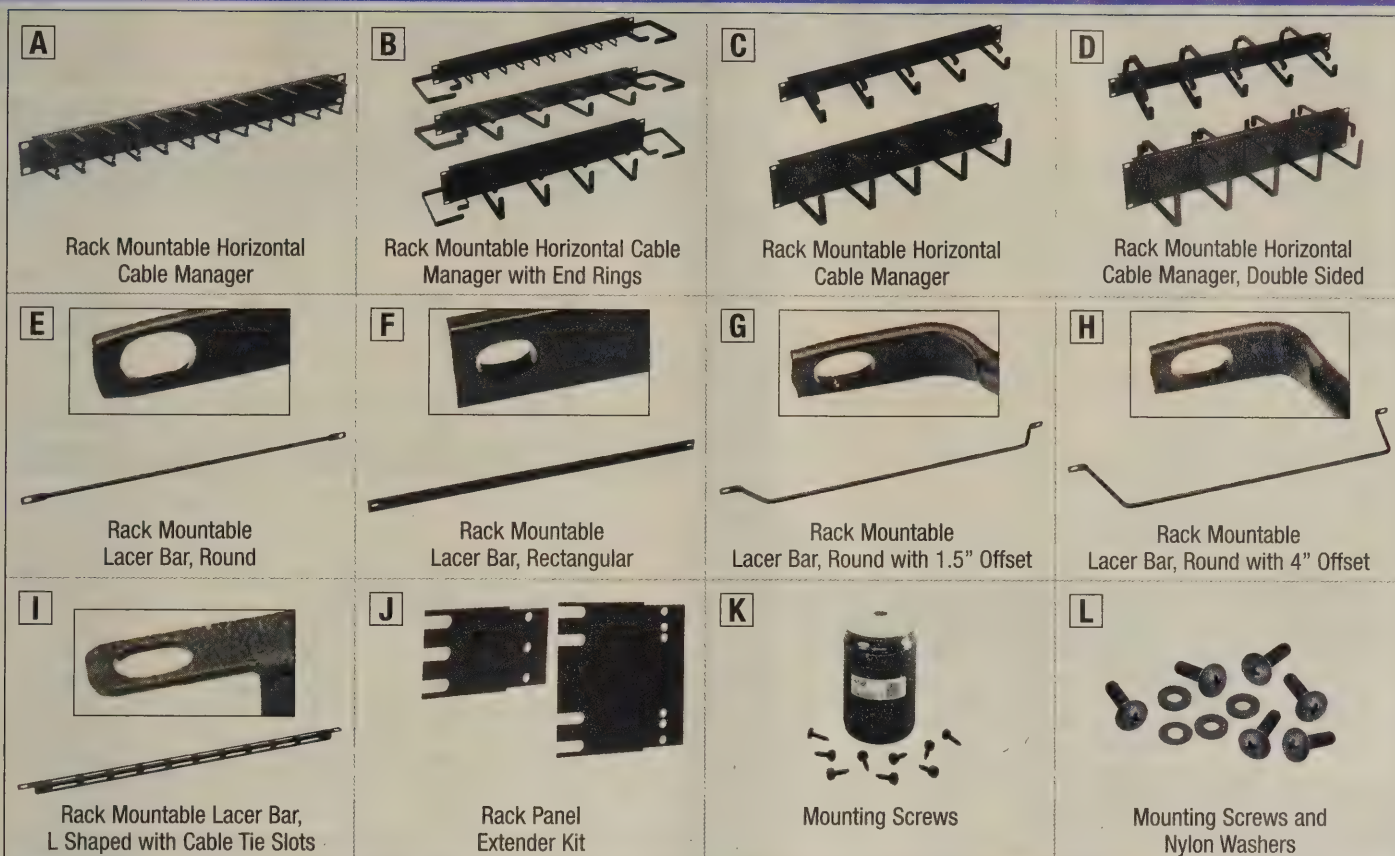
The rackmount sliding shelves extend out giving easy access to equipment. A telescopic rear support offers flexibility in rack mounting depths. Each shelf requires a minimum rack depth of 14.75".

SSL	G	19" Sliding Shelf w/14" x 16.75" Work Surface, 35 lb Capacity	1	1.75 in	9 lbs	77.74	73.85	69.19	66.86
SS	H	19" Sliding Shelf w/14.75" x 17.5" Work Surface, 50 lb Capacity	1+	2.40 in	15 lbs	115.10	109.34	102.44	98.98

RoHS 19" Rack Filler Panels

A variety of 19" rack filler panels allow installers to give a custom look to their rack installation while allowing proper thermal venting.

PR175BLK	I	1.75" Blank Filler Panel, Solid Steel	1	1.75 in	1 lb	20.85	19.18	17.51	15.85
PR35BLK	I	3.50" Blank Filler Panel, Solid Steel	2	3.50 in	2 lbs	27.45	25.25	23.06	20.86
PR175-EVTBLK	J	1.75" Blank Filler Panel, Vertical Vented Steel	1	1.75 in	1 lb	8.77	8.34	7.81	7.55
PR35-EVTBLK	J	3.50" Blank Filler Panel, Vertical Vented Steel	2	3.50 in	1 lb	11.47	10.89	10.21	9.86
PR175-VTPBLK	K	1.75" Blank Filler Panel, Horizontal Vented Steel	1	1.75 in	1 lb	20.53	19.51	18.27	17.66
PR35-VTPBLK	K	3.50" Blank Filler Panel, Horizontal Vented Steel	2	3.50 in	1 lb	22.44	21.31	19.97	19.29
FILTER	L	5.25" x 19" Rack Filter	3	5.25 in	1 lb	29.15	27.69	25.94	25.06
QTFP-2	L	5.25" x 19" Panel with Dual 4.5" Fans	3	5.25 in	5 lbs	105.63	100.35	94.01	90.84



Item #	Code	Description	Spaces	Height	Shipping Weight	1-9	10-24	25-99	100-249
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RoHS 1 1/2 Inch (1 Rack Space) Horizontal Cable Manager for 19" Racks

HCM-1	A	19" Rack Mountable Horizontal Cable Manager	1	1.75 in	1 lb	22.15	21.04	19.71	19.04
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RoHS 19" Rackmount Horizontal Cable Managers with End Rings

Horizontal cable managers provides a clean way to organize cables that connect rack mounted equipment. Large D-Ring openings make cable routing simple and fast.

HCM-1V	B	19" Rackmount Cable Manager with End Rings	1	1.75 in	2 lbs	29.87	28.38	26.59	25.69
HCM-1DV	B	19" Rackmount Cable Manager with End Rings	1	1.75 in	2 lbs	29.87	28.38	26.59	25.69
HCM-2DV	B	19" Rackmount Cable Manager with End Rings	2	3.50 in	3 lbs	32.08	30.48	28.55	27.59

RoHS 19" Rackmount Cable Managers with D Rings

These panels are made from the highest quality materials to provide a strong yet attractive method for keeping cables organized and properly routed through a rack. Each panel features front mounted D-rings to support cables. All panels feature a durable Black powder coat finish.

HCM-1D	C	19" Rackmount Cable Manager	1	1.75 in	2 lbs	27.68	26.29	24.63	23.80
HCM-2D	C	19" Rackmount Cable Manager	2	3.50 in	3.5 lbs	29.87	28.38	26.59	25.69

RoHS 19" Rackmount Horizontal Cable Managers with D Rings

Horizontal cable managers provide a clean way to organize cables that connect rack mounted equipment. This panel is equipped with large D-Ring openings on both the front and back of the panel to make cable routing simple and fast.

HCM-1DR	D	19" Rackmount Cable Manager	1	1.75 in	3.5 lbs	34.31	32.59	30.53	29.50
HCM-2DR	D	19" Rackmount Cable Manager	2	3.50 in	6 lbs	36.53	34.71	32.51	31.42

RoHS 19" Rackmount Cable Lacing Bars

Horizontal Cable Lacing Bars provide users with a simple method for managing cables horizontally on a rack. All lacer bars are sold in packages of ten.

LBP-1R	E	19" Rackmount Lacer Bar Round, Pkg/10			3 lbs	43.90	41.71	39.07	37.76
LBP-1S	F	19" Rackmount Lacer Bar Rectangular, Pkg/10			3 lbs	43.90	41.71	39.07	37.76
LBP-1R05	G	19" Rackmount Lacer Bar Round with 1.5" Offset, Pkg/10			3 lbs	63.23	60.06	56.27	54.37
LBP-1R4	H	19" Rackmount Lacer Bar Round with 4" Offset, Pkg/10			3 lbs	70.23	66.71	62.50	60.39
LBP-1A	I	19" Rackmount Lacer Bar 'L' Shaped with Cable Tie Slots, Pkg/10			3 lbs	28.11	26.71	25.02	24.18

RoHS 19" to 23" Rack Panel Extender Kits

These rack panel extender kits allow users to mount 19" rack panels onto 23" racks. Kits include two extender plates and four 10-32 Phillips head screws, nuts and washers. Color: Black.

PR175-19X23	J	Rack Panel Extender Kit	1	1.75 in	.5 lb	22.95	22.49	22.03	21.57
PR35-19X23	J	Rack Panel Extender Kit	2	3.50 in	.5 lb	24.95	24.45	23.95	23.45

RoHS 19" Rack Accessories - 10-32 and 12-24 Mounting Screws

HP24	K	12-24 Mounting Screws and Nylon Washer, Pkg/100			1 lb	20.05	19.05	17.84	17.24
HP32	K	10-32 Mounting Screws and Nylon Washer, Pkg/100			1 lb	17.03	16.18	15.16	14.65
HP32-500	L	10-32 Mounting Screws and Washer, Pkg/500			4 lbs	80.89	76.84	71.99	69.56

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Weatherproof Enclosures

Ideal for Every Application

L-com's HyperLink brand weatherproof enclosures are ideal for remote WLAN Wi-Fi equipment installations, indoor and outdoor or hot and cold temperature environments. They are also great for solar powered applications, corrosive environments, sub-zero installations, hotspot applications and protection of equipment from theft or damage. Available with a wide range of options including heat, cooling and Power-over-Ethernet interfaces. In addition to our standard enclosure products, we can custom manufacture enclosures based on customer requirements for large-scale projects.



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NEMA/IEC

NEMA (National Electrical Manufacturers Association) and the IEC (International Electrotechnical Commission) are two standards groups which have devised two rating systems for enclosures, which define the enclosures resistance to dust, moisture, water immersion and ice. The IEC's rating is referred to as the IP or Ingress Protection rating. The table below outlines NEMA and IEC IP enclosure ratings.

NEMA Enclosure Type No.	NEMA Definition	IEC Enclosure Class
1	General-purpose. Protects against dust, light and indirect splashing but is not dust-tight; primarily prevents contact with live parts; used indoors and under normal atmospheric conditions.	IP10
2	Drip-tight. Similar to Type 1 but with addition of drip shields; used where condensation may be severe (as in cooling rooms and laundries).	IP11
3 and 3S	Weather-resistant. Protects against weather hazards such as rain and sleet; used outdoors on ship docks, in construction work and in tunnels and subways.	IP54
3R	Intended for outdoor use. Provides a degree of protection against falling rain and ice formation. Meets rod entry, rain, external icing and rust-resistance design tests.	IP14
4 and 4X	Watertight (weatherproof). Must exclude at least 65 GPM of water from 1-in. nozzle delivered from a distance not less than 10 ft. for 5 min. Used outdoors on ship docks, in dairies and in breweries.	IP56
5	Dust-tight. Provided with gaskets or equivalent to exclude dust; used in steel mills and cement plants.	IP52
6 and 6P	Submersible. Design depends on specified conditions of pressure and time; submersible in water; used in quarries, mines and manholes.	IP67
7	Hazardous. For indoor use in Class I, Groups A, B, C and D environments as defined in the NEC.	—
8	Hazardous. For indoor and outdoor use in locations classified as Class I, Groups A, B, C and D as defined in the NEC.	—
9	Hazardous. For indoor and outdoor use in locations classified as Class II, Groups E, F or G as defined in the NEC.	—
10	MSHA. Meets the requirements of the Mine Safety and Health Administration, 30 CFR Part 18 (1978).	—
11	General-purpose. Protects against the corrosive effects of liquids and gases. Meets drip and corrosion-resistance tests.	—
12 and 12K	General-purpose. Intended for indoor use, provides some protection against dust, falling dirt and dripping noncorrosive liquids. Meets drip, dust and rust resistance tests.	IP52
13	General-purpose. Primarily used to provide protection against dust, spraying of water, oil and noncorrosive coolants. Meets oil exclusion and rust resistance design tests.	IP54

Enclosure Type/Size	Stock Enclosure	Pre-Config Enclosure	Blank Mtg Plate	Power Mtg	Heater	Fan	Solid State Controller	Vented Enclosure	
NON-POWERED ENCLOSURES									
14"x12"x7"									NB141207-KIT
									NB141207
									NB141207-01
									NB141207-00V
18"x16"x8"									NB181608
									NB181608-01
									NB181608-00V
120 VAC ENCLOSURES									
14"x10"x4"									NBP141004-100
									NBP141004-100-4
									NB141207-100
									NB141207-1H0
14"x12"x7"									NB141207-10F
									NB141207-10FS
									NB141207-10FSD
									NB141207-1HF
18"x16"x8"									NB141207-1HFS
									NB141207-10V
									NB181608-100
									NB181608-1H0
14"x10"x4"									NB181608-10F
									NB181608-10FS
									NB181608-10FSD
									NB181608-1HF
18"x16"x8"									NB181608-1HFS
									NB181608-10V
240 VAC ENCLOSURES									
14"x12"x7"									NB141207-2H0
									NB141207-20F
									NB141207-2HF
POWER-OVER-ETHERNET ENCLOSURES									
14"x12"x7"									NB141207-400
									NB141207-4H0
									NB141207-40F
									NB141207-40FS
18"x16"x8"									NB141207-40V
									NB181608-400
									NB181608-40F
									NB181608-40FS
14"x12"x7"									NB181608-40V
12 VDC ENCLOSURES									
14"x12"x7"									NB141207-500
									NB141207-50F
									NB141207-50V
18"x16"x8"									NB181608-500
									NB181608-50F
									NB181608-50V

Item #	Description	1-4	5-9	10-24	25-99	100-249
Non-Powered Weatherproof NEMA Rated Enclosures						
RoHS Non-Powered NEMA 4X Enclosures						
NB141207	14x12x7", No Plate	64.99	63.04	61.09	59.14	CALL
NB141207-KIT	14x12x7", Blank Mounting Plate	79.99	77.59	75.19	72.79	CALL
NB141207-01	14x12x7", Mounting Plate	129.99	124.79	119.59	114.39	109.19
NB181608	18x16x8", No Plate	149.99	145.49	140.99	136.49	CALL
NB181608-KIT	18x16x8", Blank Mounting Plate	179.99	174.59	169.19	163.79	CALL
NB181608-01	18x16x8", Mounting Plate	199.99	195.99	191.99	187.99	183.99
RoHS Non-Powered NEMA 3R Enclosures						
NB141207-00V	14x12x7", Mounting Plate, Vent	159.99	155.19	150.39	145.59	140.79
NB181608-00V	18x16x8", Mounting Plate, Vent	249.99	244.99	239.99	234.99	229.99
120 VAC / 240 VAC Weatherproof NEMA Rated Enclosures						
These 120 VAC powered NEMA enclosures are available with many options including integrated mounting plates, heaters and fans. These enclosures can be used in Wi-Fi hotspots, harsh environments requiring cooling or heating and in virtually any other application where communications equipment is vulnerable to theft or the elements. See individual listings below for options.						
RoHS 120 VAC Powered NEMA 3R Enclosures						
NB141207-10V	14x12x7", Mounting Plate, Vent	189.99	184.29	178.59	172.89	167.19
NB141207-10F	14x12x7", Mounting Plate, Fan	199.99	193.99	187.99	181.99	CALL
NB141207-10FS	14x12x7", Mounting Plate, Solid State Controlled Fan	234.99	227.94	220.89	213.84	206.79
NB141207-1HF	14x12x7", Mounting Plate, Heater/Fan	249.99	242.49	234.99	227.49	219.99
NB141207-1HFS	14x12x7", Mounting Plate, Solid State Controlled Heater/Fan	299.99	290.99	281.99	272.99	263.99
NB141207-10FSD	14x12x7", Mounting Plate, Solid State Controlled Dual Fans	279.99	271.59	263.19	254.79	246.39
NB181608-10V	18x16x8", Mounting Plate, Vent	369.99	358.89	347.79	336.69	325.59
NB181608-10F	18x16x8", Mounting Plate, Fan	379.99	368.59	357.19	345.79	334.39
NB181608-10FS	18x16x8", Mounting Plate, Solid State Controlled Fan	414.99	402.54	390.09	377.64	365.19
NB181608-1HF	18x16x8", Mounting Plate, Heater/Fan	449.99	436.49	422.99	409.49	395.99
NB181608-1HFS	18x16x8", Mounting Plate, Solid State Controlled Heater/Fan	499.99	484.99	469.99	454.99	439.99
NB181608-10FSD	18x16x8", Mounting Plate, Solid State Controlled Dual Fans	419.99	407.39	394.79	382.19	369.59
NB141207-00V	14x12x7", Mounting Plate, Vent	159.99	155.19	150.39	145.59	140.79
NB181608-00V	18x16x8", Mounting Plate, Vent	249.99	244.99	239.99	234.99	229.99
NB141207-00V	14x12x7", Mounting Plate, Vent	159.99	155.19	150.39	145.59	140.79
NB181608-00V	18x16x8", Mounting Plate, Vent	249.99	244.99	239.99	234.99	229.99
RoHS 120 VAC Powered NEMA 4X Enclosures						
NB141207-100	14x12x7", Mounting Plate	179.99	174.59	169.19	163.79	158.39
NB141207-1H0	14x12x7", Mounting Plate, Heater	199.99	193.99	187.99	181.99	175.99
NB181608-100	18x16x8", Mounting Plate	269.99	261.89	253.79	245.69	237.59
NB181608-1H0	18x16x8", Mounting Plate, Heater	349.99	339.49	328.99	318.49	307.99
RoHS 120 VAC Powered NEMA 3R ABS Plastic Enclosures						
NBP141004-100	14x10x4", No Plate	44.99	43.64	42.29	40.94	CALL
NBP141004-100-4	14x10x4", No Plate, 4-Pack	154.99	150.34	145.69	141.04	CALL
RoHS 240 VAC Weatherproof Powered NEMA 3R Enclosures						
NB141207-20F	14x12x7", Mounting Plate, Fan	239.99	232.79	225.59	218.39	211.19
NB141207-2HF	14x12x7", Mounting Plate, Heater/Fan	279.99	271.59	263.19	254.79	246.39
NB181608-20F	18x16x8", Mounting Plate, Fan	369.99	358.89	347.79	336.69	325.59
NB181608-2HF	18x16x8", Mounting Plate, Heater/Fan	439.99	426.79	413.59	400.39	387.19
RoHS 240 VAC Powered NEMA 4x Enclosures						
NB141207-2H0	14x12x7", Mounting Plate, Heater	239.99	232.79	225.59	218.39	211.19
NB181608-2H0	18x16x8", Mounting Plate, Heater	349.99	339.49	328.99	318.49	307.99

RoHS 120 VAC Powered NEMA 4X Enclosures

NB141207-100	14x12x7", Mounting Plate	179.99	174.59	169.19	163.79	158.39
NB141207-1H0	14x12x7", Mounting Plate, Heater	199.99	193.99	187.99	181.99	175.99
NB181608-100	18x16x8", Mounting Plate	269.99	261.89	253.79	245.69	237.59
NB181608-1H0	18x16x8", Mounting Plate, Heater	349.99	339.49	328.99	318.49	307.99

RoHS 120 VAC Powered NEMA 3R ABS Plastic Enclosures

NBP141004-100	14x10x4", No Plate	44.99	43.64	42.29	40.94	CALL
NBP141004-100-4	14x10x4", No Plate, 4-Pack	154.99	150.34	145.69	141.04	CALL

RoHS 240 VAC Weatherproof Powered NEMA 3R Enclosures

NB141207-20F	14x12x7", Mounting Plate, Fan	239.99	232.79	225.59	218.39	211.19
NB141207-2HF	14x12x7", Mounting Plate, Heater/Fan	279.99	271.59	263.19	254.79	246.39
NB181608-20F	18x16x8", Mounting Plate, Fan	369.99	358.89	347.79	336.69	325.59
NB181608-2HF	18x16x8", Mounting Plate, Heater/Fan	439.99	426.79	413.59	400.39	387.19

RoHS 240 VAC Powered NEMA 4x Enclosures

NB141207-2H0	14x12x7", Mounting Plate, Heater	239.99	232.79	225.59	218.39	211.19
NB181608-2H0	18x16x8", Mounting Plate, Heater	349.99	339.49	328.99	318.49	307.99

Weatherproof NEMA Rated Enclosures with PoE Interface

L-com offers both NEMA 3R and 4X rated weatherproof enclosures with integrated PoE interfaces. These enclosures are perfect for use with wireless radios and other communications equipment which support PoE applications. All enclosures feature mounting plates designed to work with a multitude of WLAN equipment. Sturdy molded fiberglass reinforced polyester construction provides years of use.

RoHS PoE Powered NEMA 3R Enclosures

NB141207-40V	14x12x7", Mounting Plate, Vent	169.99	164.89	159.79	154.69	CALL
NB141207-40F	14x12x7", Mounting Plate, Fan	199.99	193.99	187.99	181.99	CALL
NB141207-40FS	14x12x7", Mounting Plate, Solid State Controlled Fan	249.99	242.49	234.99	227.49	CALL
NB181608-40V	18x16x8", Mounting Plate, Vent	349.99	339.49	328.99	318.49	307.99
NB181608-40F	18x16x8", Mounting Plate, Fan	399.99	387.99	375.99	363.99	351.99
NB181608-40FS	18x16x8", Mounting Plate, Solid State Controlled Fan	449.99	436.49	422.99	409.49	395.99
NB141207-2H0	14x12x7", Mounting Plate, Heater	239.99	232.79	225.59	218.39	211.19

RoHS PoE Powered NEMA 4X Enclosures

NB141207-400	14x12x7", Mounting Plate	159.99	155.19	150.39	145.59	140.79
NB181608-400	18x16x8", Mounting Plate	299.99	290.99	281.99	272.99	263.99

RoHS Universal Pole Mounting Kit (See Website for more Mounting and Accessory Options)

This kit is used to mount NB141207 or NB181608 series weatherproof enclosures from 2 inch (50.8mm) to 4 inch (101.6mm) dia. poles. For larger diameter poles, slots are provided in the rails for 1/2 inch (12.7mm) wide worm drive clamps. For poles 1-1/4 inch (31.7mm) to 2 inch (50.8mm) dia. the HGX-PMT07 (2 required) can be used with this kit.

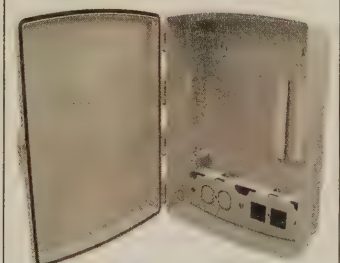
HGX-PMT13	Pole Mount Kit, 2" (50.8mm) to 4" (101.6mm) Dia. Poles	39.99	35.99	31.99	27.99	CALL
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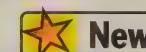
NB141207



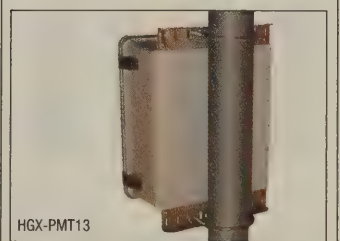
NB181608-10FSD



NBP141004-100



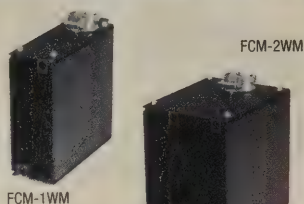
NB141207-20F



HGX-PMT13

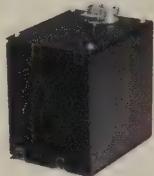
Custom design and manufacturing capabilities

Our product design process takes you from concept to production. L-com.com/Custom



FCM-1WM

FCM-2WM



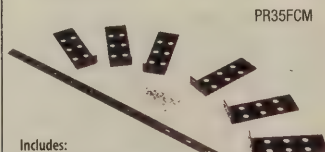
FCM-4WM



PR175FCM



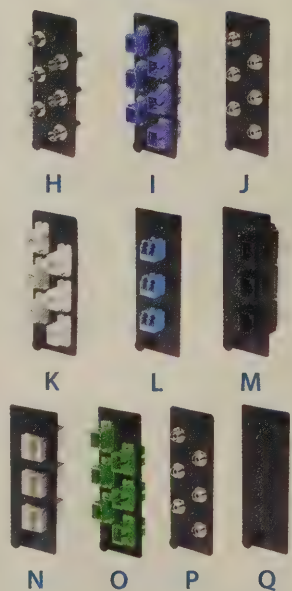
PR35FCM



PR-CMB

- Includes:
- One 19" perforated crossbar
 - (18) 4-40 flathead screws
 - Six perforated extension bars

Fiber/Copper Sub Panels (6 or 3 Packs)



HBHP Series

Item #	Description	List Price
Single Panel DIN Rail Termination Enclosure - For Easy Cable Mounting at the Workplace		
Use this simple enclosure for terminating fiber and copper cabling within industrial workplaces or anyplace that needs a small cable drop. The unit mounts to 35mm DIN Rail allowing cable entry from the top or bottom. DIN connector is also removable for mounting to walls, etc. Interchangeable three and six packs mount to the front of the enclosure for cable termination. Fully shielded. Color: Black.		
FCM-1WM	DIN Rail Termination Enclosure for 3 or 6 Pack	39.95

Two or Four Panel DIN Rail/Wall Termination Enclosures Accept Fiber and Copper Sub-Panels

The FCM-2M and FCM-4M enclosures are handy devices for terminating fiber and copper cabling runs. Both units are mountable to 35mm DIN Rail or wall mountable and accept popular three and six packs. Familiar screw-down entry points offer excellent strain relief at the cable entry point. Color: Black.

FCM-2WM	Two Panel Wall Termination Enclosure	49.95
FCM-4WM	Four Panel Wall Termination Enclosure	59.95

Item #	Description	1-9	10-24	25-99	100-249
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RoHS 19 inch Rack Panels Accept 4 or 8 Fiber/Copper Sub-Panels

This series of 19" rack panels accepts any of our copper or fiber optic sub-panels. Sub-panels snap into place using push button rivets which are easily removable. Built from .060 inch cold rolled steel, these items are rugged and economically priced. Rear cable management option is available as an accessory. Color: Black.

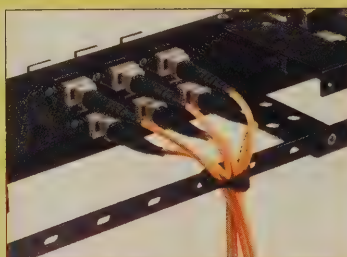
PR175FCM	1.75" Rack Panel for 4 Copper/Fiber Sub-Panels	39.95	36.75	33.56	30.36
PR35FCM	3.50" Rack Panel for 8 Copper/Fiber Sub-Panels	49.95	45.95	41.96	37.96
PR-CMB	Cable Management Bracket Kit for 19" Panels (One 19" Crossbar, 6 Extension Bars, 18 Flathead Screws)	24.95	24.45	23.95	23.45



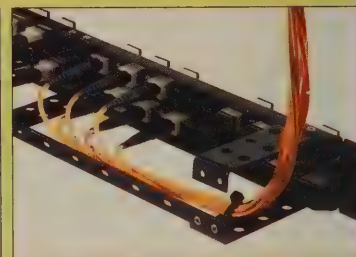
Tip

The PR-CMB cable management kit is designed for maximum flexibility.

A unique extension and crossbar design permits side and rear cable routing. All surfaces are perforated for ample cable tie points.



Rear Crossbar:
Useful for reducing connector stress from hanging cable lengths.



Extension Bars:
Enable cable routing and provide ample tie-down points.

Item #	Description	Code	1-9	10-24	25-99	100-249
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RoHS Fiber Optic and Modular Sub-Panels (3 or 6 Packs)

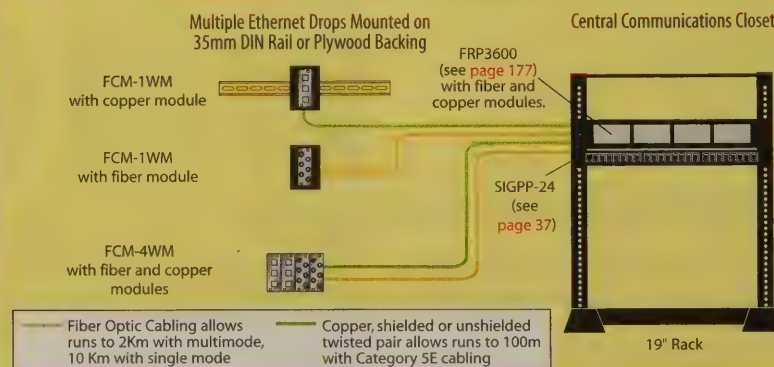
Use these six packs to populate our DIN Rail Termination Enclosures with fiber optic or copper adapters. Black panels include 3 or 6 simplex or duplex adapters and snap in place for easy removal/installation. Available in a variety of connector types. Black enamel finish.

HBHP-ST6L	Fiber Sub Panel - 6 ST Connectors	H	34.95	32.85	30.76	28.66
HBHP-SC6L	Fiber Sub Panel - 6 SC Connectors	I	39.95	37.55	35.16	32.76
HBHP-FC6	Fiber Sub Panel - 6 FC Connectors	J	49.95	46.95	43.96	40.96
HBHP-MTRJ6	Fiber Sub Panel - 6 MT-RJ Connectors	K	44.95	42.25	39.56	36.86
HBHP-LC3	Fiber Sub Panel - 3 Duplex LC Connectors	L	44.95	42.25	39.56	36.86
HBHP-RJ11OC5	Copper Sub Panel - 3 Unshielded Category 5E Jacks	M	19.95	18.75	17.56	16.36
HBHP-RJ11OC5S	Copper Sub Panel - 3 Shielded Category 5E Jacks	N	24.95	23.45	21.96	20.46
HBHP-SC6L-APC	Fiber Sub Panel - 6 APC SC Connectors	O	55.95	54.83	53.71	52.59
HBHP-FC6-APC	Fiber Sub Panel - 6 APC FC Connectors	P	69.95	68.55	67.15	65.75
HBHP-BNK	Blank Sub Panel	Q	16.95	15.93	14.92	13.90



Tip

What is an easy way to terminate network cabling in an industrial Ethernet environment?

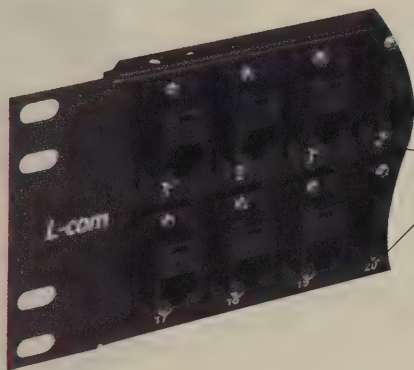


1. First a wiring closet or central wiring point must be established. Utilize 19" racks and enclosures here.
2. Determine what type cabling will be used. Copper Category 5E (shielded is recommended where EMI is prevalent) can be run to 100m; fiber to 2 or 10Km.
3. DIN rail enclosures are handy for terminating at the cable drop. Choose the appropriate sub panel to match the connectors used.

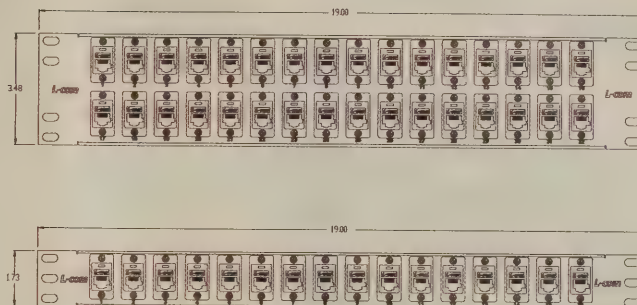




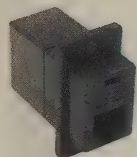
Choice of coupler style



Numerical legend for each port

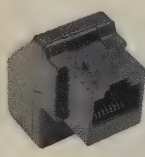


A



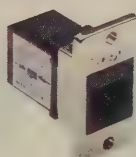
RJ11/12, RJ45

B



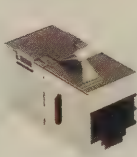
RJ45

C



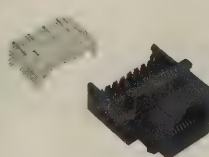
RJ45

D



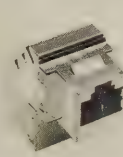
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E



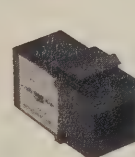
RJ11/12, RJ45

F



RJ45

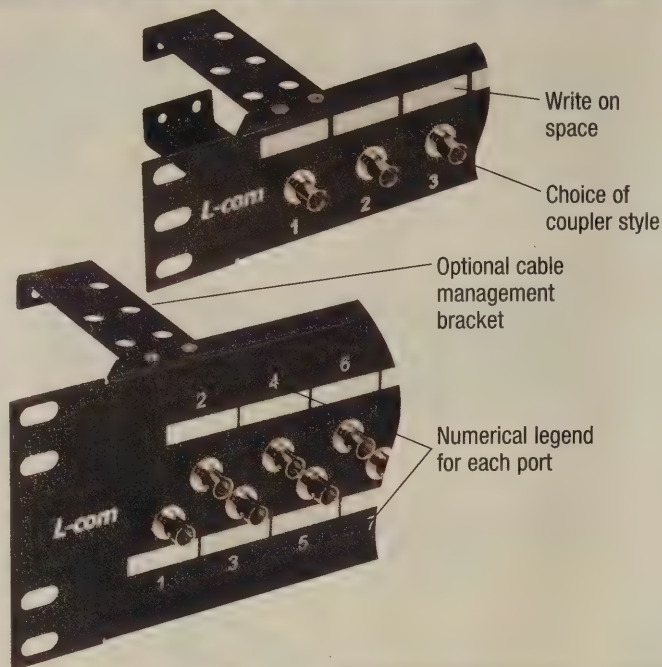
G



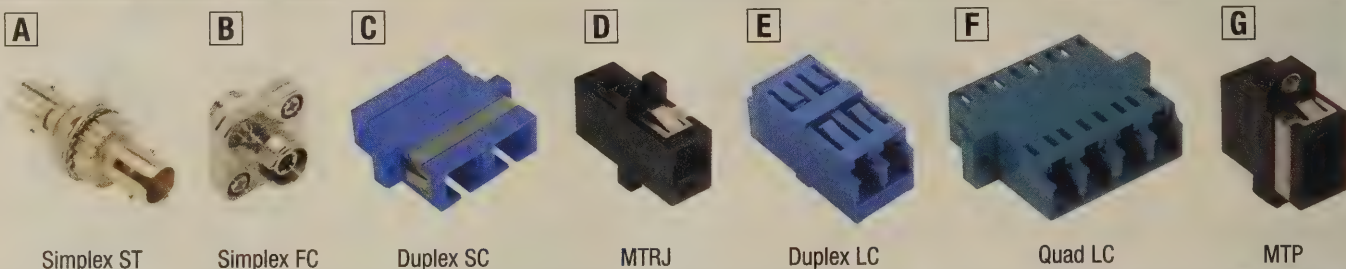
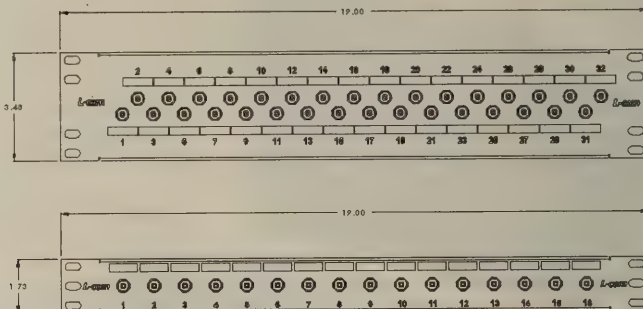
RJ45

Item #	Code	Description	1-9	10-24	25-99	100-249
RoHS Telecom / Network Rack Panels						
PR175F504B-C5	C	1.75" Panel, 16 Cat. 5E Couplers, Black	169.95	163.15	156.35	149.56
PR175F504B-SC5	C	1.75" Panel, 16 Cat. 5E Couplers, Shielded, Black	229.95	220.75	211.55	202.36
PR175F504B-C6	C	1.75" Panel, 16 Cat. 6 Couplers, Black	199.95	191.95	183.95	175.96
PR175F504B-SC6	C	1.75" Panel, 16 Cat. 6 Couplers, Shielded, Black	249.95	239.95	229.95	219.96
PR35F504B-C5	C	3.50" Panel, 32 Cat. 5E Couplers, Black	319.95	307.15	294.35	281.56
PR35F504B-SC5	C	3.50" Panel, 32 Cat. 5E Couplers, Shielded, Black	399.95	383.95	367.95	351.96
PR35F504B-C6	C	3.50" Panel, 32 Cat. 6 Couplers, Black	349.95	335.95	321.95	307.96
PR35F504B-SC6	C	3.50" Panel, 32 Cat. 6 Couplers, Shielded, Black	429.95	412.75	395.55	378.36
PR175F504B-4S	A	1.75" Panel, 16 RJ11(6x4) Couplers, Straight-Thru, Black	69.95	64.35	58.76	53.16
PR175F504B-6S	A	1.75" Panel, 16 RJ12(6x6) Couplers, Straight-Thru, Black	79.95	73.55	67.16	60.76
PR175F504B-8SK	A	1.75" Panel, 16 RJ45(8x8) Couplers, Straight-Thru, Black	89.95	82.75	75.56	68.36
PR35F504B-4S	A	3.50" Panel, 32 RJ11(6x4) Couplers, Straight-Thru, Black	129.95	119.55	109.16	98.76
PR35F504B-6S	A	3.50" Panel, 32 RJ12(6x6) Couplers, Straight-Thru, Black	139.95	128.75	117.56	106.36
PR35F504B-8SK	A	3.50" Panel, 32 RJ45(8x8) Couplers, Straight-Thru, Black	169.95	156.35	142.76	129.16
PR175F504B	N/A	1.75" Panel, 16 ECF Style Cutouts, Black	34.95	34.25	33.55	32.85
PR35F504B	N/A	3.50" Panel, 32 ECF Style Cutouts, Black	39.95	39.15	38.35	37.55
PR175UT568	B	1.75" Panel, 16 Cat. 5E Couplers, Black	179.95	165.55	151.16	136.76
PR175UT568S	F	1.75" Panel, 16 Cat. 5E Couplers, Shielded, Black	199.95	183.95	167.96	151.96
PR35UT568	B	3.50" Panel, 32 Cat. 5E Couplers, Black	299.95	275.95	251.96	227.96
PR35UT568S	F	3.50" Panel, 32 Cat. 5E Couplers, Shielded, Black	379.95	349.55	319.16	288.76
PR175C6-16	G	1.75" Panel, 16 Cat. 6 Couplers, Black	189.95	174.75	159.56	144.36
PR175C6-16S	D	1.75" Panel, 16 Cat. 6 Couplers, Shielded, Black	239.95	220.75	201.56	182.36
PR35C6-32	G	3.50" Panel, 32 Cat. 6 Couplers, Black	319.95	294.35	268.76	243.16
PR35C6-32S	D	3.50" Panel, 32 Cat. 6 Couplers, Shielded, Black	369.95	340.35	310.76	281.16
PR175UJ16B	N/A	1.75" Panel, 16 Keystone Style Cutouts, Black	29.95	CALL	CALL	CALL
PR35UT568B	N/A	3.50" Panel, 32 Keystone Style Cutouts, Black	24.50	CALL	CALL	CALL
PR175-1606	E	1.75" Panel, 16 Voice Grade RJ12(6x6) IDC Jacks, Black	59.00	CALL	CALL	CALL
PR175-1608	E	1.75" Panel, 16 Voice Grade RJ45(8x8) IDC Jacks, Black	79.95	CALL	CALL	CALL
PR35-3206	E	3.50" Panel, 32 Voice Grade RJ12(6x6) IDC Jacks, Black	79.00	CALL	CALL	CALL
PR35-3208	E	3.50" Panel, 32 Voice Grade RJ45(8x8) IDC Jacks, Black	119.95	CALL	CALL	CALL

"Today was the first contact I had with your company. I found your sales and customer service associates very helpful. I look forward to sharing your information with our Technology Team." - Jill W.

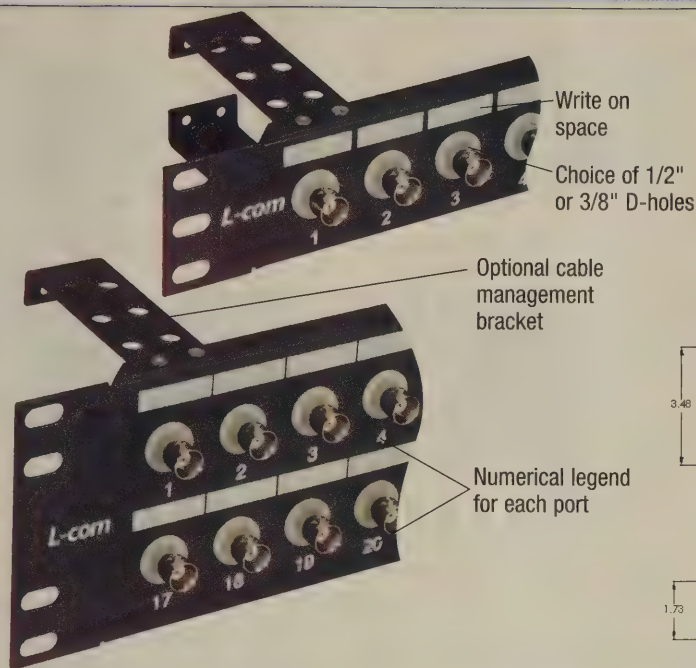


System designers have a complete selection of panel configurations for fiber optic connections to choose from. Each panel features a convenient write-on space above and numerical legends below each port. This allows users a fast and simple way to identify ports for their equipment. Our panels are made with 16-gauge cold-rolled steel and finished with a durable Black powder coat. An optional cable management bracket on the rear of the panel gives a secure place to tie off cable bundles and prevent connector fatigue. Panels are available with SC, ST, MT-RJ or FC style couplers.

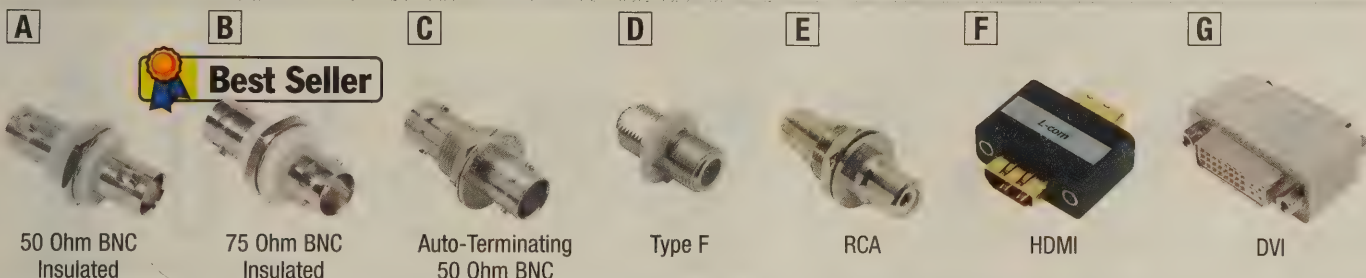
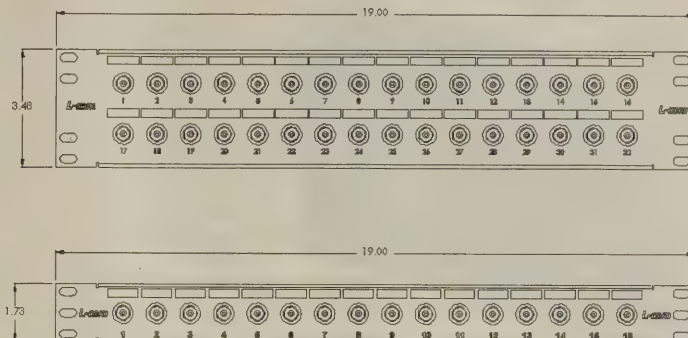


Item #	Code	Description	1-9	10-24	25-99	100-249
RoHS Fiber Optic Rack Panels						
PR175ST16CMB	A	1.75" Panel, 16 ST Couplers, Cable Minder, Black	129.95	119.55	109.16	98.76
PR35ST32CMB	A	3.50" Panel, 32 ST Couplers, Cable Minder, Black	189.00	173.88	158.76	143.64
UPR35-12ST	B	3.50" Universal Rack Panel, 12 ST Couplers, Black	119.95	112.75	105.56	98.36
UPR35-24ST	B	3.50" Universal Rack Panel, 24 ST Couplers, Black	149.95	140.95	131.96	122.96
PR175FC16CMB	B	1.75" Panel, 16 FC Couplers, Cable Minder, Black	199.95	183.95	167.96	151.96
PR35FC32CMB	B	3.50" Panel, 32 FC Couplers, Cable Minder, Black	332.90	306.27	279.64	253.00
PR35DSC32C	C	3.50" Panel, 32 Duplex SC Couplers, Black	269.00	258.24	247.48	236.72
UPR35-6DSC	C	3.50" Universal Rack Panel, 6 Duplex SC Couplers, Black	179.95	169.15	158.36	147.56
UPR35-12DSC	C	3.50" Universal Rack Panel, 12 Duplex SC Couplers, Black	269.95	253.75	237.56	221.36
PR175LC96	F	1.75" Panel, 96 LC Couplers, Black	259.00	253.82	248.64	243.46
PR175MT16B	D	1.75" Panel, 16 MT-RJ Couplers, Black	99.00	97.02	95.04	93.06
PR175DLC16B	E	1.75" Panel, 16 LC Duplex Couplers, Black	179.00	175.42	171.84	168.26
PR175ST16CMB-SM	A	1.75" Panel, 16 ST Couplers, Cable Minder, Black	159.95	147.15	134.36	121.56
PR35ST32CMB-SM	A	3.50" Panel, 32 ST Couplers, Cable Minder, Black	239.00	219.88	200.76	181.64
PR175FC16CMB-SM	B	1.75" Panel, 16 FC Couplers, Cable Minder, Black	219.95	202.35	184.76	167.16
PR35FC32CMB-SM	B	3.50" Panel, 32 FC Couplers, Cable Minder, Black	352.95	324.71	296.48	268.24
PR175FC16CM-SMA	B	1.75" Panel, 16 FC APC Couplers, Cable Minder, Black	269.00	247.48	225.96	204.44
PR35FC32CMB-SMA	B	3.50" Panel, 32 FC APC Couplers, Cable Minder, Black	489.00	449.88	410.76	371.64
PR35DSC32C-SM	C	3.50" Panel, 32 Duplex SC Couplers, Black	325.00	312.00	299.00	286.00
PR175LC96-SM	F	1.75" Panel, 96 LC Couplers, Black	469.00	459.62	450.24	440.86
PR17516MTP	G	1.75" Panel, 16 MTP Couplers, Black	199.00	195.02	191.04	187.06
PR-CMB	N/A	Cable Management Bracket Kit for 19" Panels (One 19" Crossbar, 6 Extension Bars, 18 Flathead Screws)	24.95	24.45	23.95	23.45





A complete selection of panel configurations for coaxial connections is available to system designers. Each panel features a convenient write-on space above and numerical legends below each port. This allows users a fast and simple way to identify ports for their equipment. Our panels are made with 16-gauge cold-rolled steel and finished with a durable Black powder coat. An optional cable management bracket on the rear of the panel gives a secure place to tie off cable bundles and prevent connector fatigue. Panels are available with Type F or BNC style couplers.



Item #	Code	Description	Color	1-9	10-24	25-99	100-249
RoHS Coaxial Rack Panels							
PR175-16BLK	N/A	1.75" Panel, 16 0.5" D-Holes	Black	24.95	24.45	23.95	23.45
PR175-16CMB	N/A	1.75" Panel, 16 0.5" D-Holes and Cable Minder	Black	37.95	37.19	36.43	35.67
PR35-32BLK	N/A	3.50" Panel, 32 0.5" D-Holes	Black	29.95	29.35	28.75	28.15
PR35-32CMB	N/A	3.50" Panel, 32 0.5" D-Holes and Cable Minder	Black	49.95	45.95	41.96	37.96
PR175B16BLK	A	1.75" Panel, 16 BNC Couplers, 50 Ohm Insulated	Black	99.95	91.95	83.96	75.96
PR35B32BLK	A	3.50" Panel, 32 BNC Couplers, 50 Ohm Insulated	Black	179.95	165.55	151.16	136.76
PR175B1675BLK	B	1.75" Panel, 16 BNC Couplers, 75 Ohm Insulated	Black	109.95	101.15	92.36	83.56
PR35B3275BLK	B	3.50" Panel, 32 BNC Couplers, 75 Ohm Insulated	Black	209.95	193.15	176.36	159.56
PR175B16CMB	A	1.75" Panel, 16 BNC Couplers, Insulated with Cable Minder	Black	119.95	110.35	100.76	91.16
PR35B32CMB	A	3.50" Panel, 32 BNC Couplers, Insulated with Cable Minder	Black	199.95	183.95	167.96	151.96
PR175B16GBLK	C	1.75" Panel, 16 BNC Auto-Terminating Couplers, 50 Ohm	Black	129.00	118.68	108.36	98.04
PR35B32GBLK	C	3.50" Panel, 32 BNC Auto-Terminating Couplers, 50 Ohm	Black	229.95	211.55	193.16	174.76
PR175F16	D	1.75" Panel, 16 Type F Couplers, Insulated	Black	79.95	73.55	67.16	60.76
PR35F32	D	3.50" Panel, 32 Type F Couplers, Insulated	Black	99.95	91.95	83.96	75.96
RoHS Audio/Video Rack Panels							
PR175RCA16	E	1.75" Panel, 16 RCA Couplers, Grounded	Black	89.95	88.15	86.35	84.55
PR35RCA32	E	3.50" Panel, 32 RCA Couplers, Grounded	Black	149.95	146.95	143.95	140.95
PR35HDMI16B	F	3.50" Panel, 16 HDMI Female Adapters	Black	299.00	275.08	251.16	227.24
PR35DVI16B	G	3.50" Panel, 16 DVI Female Adapters	Black	159.00	155.82	152.64	149.46


Tip

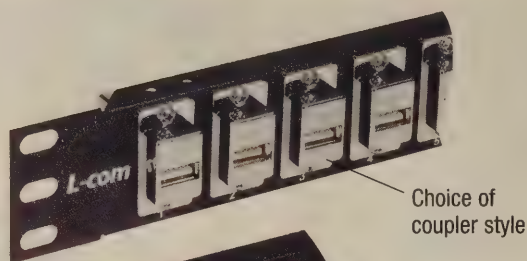
What is Impedance?

Impedance is a measurement of opposition to the flow of current within a cable. Two of the most common impedance values used in coaxial cable are 50 Ohms primarily used for data transmission and 75 Ohms primarily used for video transmission. In twisted pair cable, common impedance values are 100 and 120 Ohms.

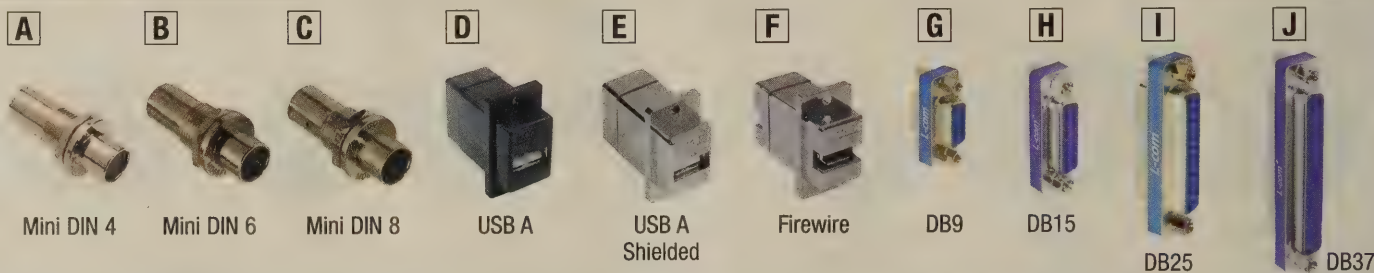
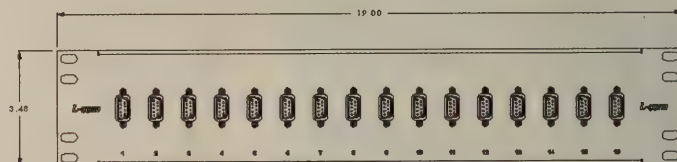
Custom design and manufacturing capabilities

Our product design process takes you from concept to production. L-com.com/Custom





L-com offers system designers a complete selection of panel configurations for data and serial connections. Each panel features numerical legends below each port. This allows users a fast and simple way to identify ports for their equipment. Our panels are made with 16-gauge cold-rolled steel and finished with a durable Black powder coat. Panels are available with D-Sub, Firewire, USB or Mini DIN style couplers.

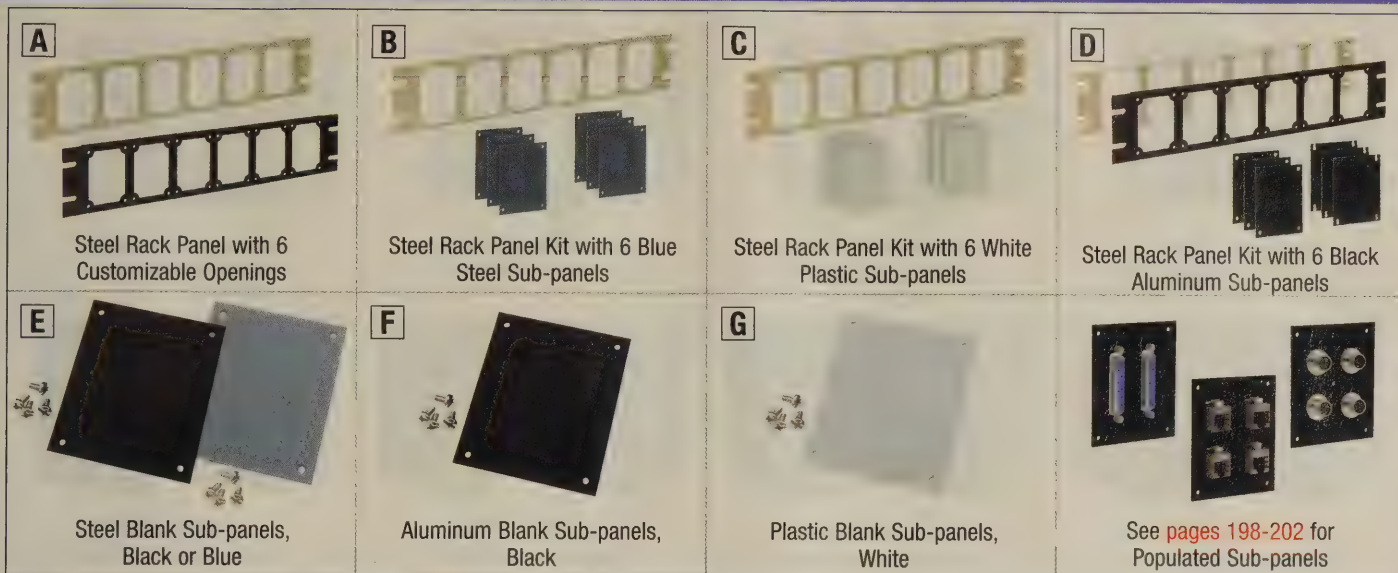


Item #	Code	Description	Color	1-9	10-24	25-99	100-249
Rolls D-Sub, USB, DIN, Firewire Rack Panels							
PR175MD4-16B	A	1.75" Panel, 16 Mini DIN 4 Feed-Thrus	Black	79.95	78.35	76.75	75.15
PR175MD6-16B	B	1.75" Panel, 16 Mini DIN 6 Feed-Thrus	Black	82.95	81.29	79.63	77.97
PR175MD8-16B	C	1.75" Panel, 16 Mini DIN 8 Feed-Thrus	Black	95.00	93.10	91.20	89.30
PR175F504-UAB	D	1.75" Panel, 16 USB A/B Couplers	Black	119.95	110.35	100.76	91.16
PR35F504-UAB	D	3.50" Panel, 32 USB A/B Couplers	Black	199.95	183.95	167.96	151.96
PR175F504-UABS	E	1.75" Panel, 16 Shielded USB A/B Couplers	Black	129.95	119.55	109.16	98.76
PR35F504-UABS	E	3.50" Panel, 32 Shielded USB A/B Couplers	Black	229.95	211.55	193.16	174.76
PR175F504-94MS	F	1.75" Panel, 16 Shielded IEEE-1394 Type 1 Couplers	Black	149.95	137.95	125.96	113.96
PR35F504-94MS	F	3.50" Panel, 32 Shielded IEEE-1394 Type 1 Couplers	Black	279.95	257.55	235.16	212.76
PR35DS916B	N/A	3.50" Panel, 16 DB9 Cutouts	Black	29.95	29.35	28.75	28.15
PR35DS1516B	N/A	3.50" Panel, 16 DB15 Cutouts	Black	29.95	29.35	28.75	28.15
PR35DS2516B	N/A	3.50" Panel, 16 DB25 Cutouts	Black	29.95	29.35	28.75	28.15
PR35DS3716B	N/A	3.50" Panel, 16 DB37 Cutouts	Black	59.95	58.75	57.55	56.35
PR35GB9FB	G	3.50" Panel, 16 DB9 Female Couplers	Black	109.95	101.15	92.36	83.56
PR35GB15FB	H	3.50" Panel, 16 DB15 Female Couplers	Black	124.95	114.95	104.96	94.96
PR35GB25FB	I	3.50" Panel, 16 DB25 Female Couplers	Black	139.95	128.75	117.56	106.36
PR35GB37FB	J	3.50" Panel, 16 DB37 Female Couplers	Black	173.50	159.62	145.74	131.86



For more useful information go to....
www.L-com.com/Resources





Item #	Code	Description	Color	1-9	10-24	25-99	100-249	250-499
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Universal Master Rack Panel with 6 Openings

L-com's Universal Series offers installers the ability to customize their installation with different connections within a single rack panel. The Universal Series panels can save time, money and rack space in an installation project. The master panels feature six punched rectangular openings that will accept any of the numerous sub-panels shown in this catalog. Sub-panel openings are 2.20" x 2.75".

UPR35-6	A	Master Rack Panel	Bone	24.95	23.45	21.96	20.46	18.96
UPR35-6B	A	Master Rack Panel	Black	24.95	23.45	21.96	20.46	18.96
UPR-S-KIT	B	Master Rack Panel with 6 Blue Steel Blanks	Bone	46.50	43.71	40.92	38.13	35.34
UPR-P-KIT	C	Master Rack Panel with 6 White Plastic Blanks	Bone	45.00	42.30	39.60	36.90	34.20
UPR-A-KIT	D	Master Rack Panel with 6 Black Aluminum Blanks	Black	46.00	43.24	40.48	37.72	34.96
UPR-A-KIT-BN	D	Master Rack Panel with 6 Black Aluminum Blanks	Bone	46.00	43.24	40.48	37.72	34.96

Universal Series Blank Sub-Panels

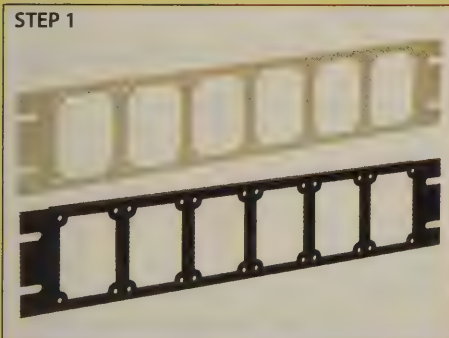
Universal Series blank sub-panels can be used to cover unused openings or may be used to customize a panel assembly. These panels come in 3 different styles for users to choose from: Black anodized aluminum, White high impact plastic, Blue or Black steel. The aluminum and plastic panels offer the easiest option for custom drilling or punching holes. The Blue and Black steel panels are constructed of sturdy cold rolled steel for durability. Each sub-panel is equipped with four pre-tapped holes to accept the four 6-32 mounting screws which are supplied.

USP	E	Universal Steel Blank Sub-Panel	Blue	3.95	3.79	3.63	3.48	3.32
USPB	E	Universal Steel Blank Sub-Panel	Black	3.95	3.79	3.63	3.48	3.32
USP-A	F	Universal Aluminum Blank Sub-Panel	Black	3.95	3.71	3.48	3.24	3.00
USP-P	G	Universal Plastic Blank Sub-Panel	White	3.85	3.62	3.39	3.16	2.93



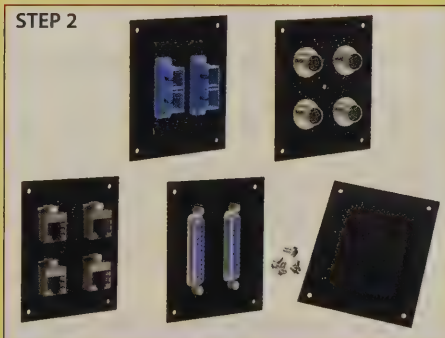
Building Custom Configurations with L-com's Universal Rack Panel System

STEP 1



Select a rack panel suitable for your application.

STEP 2



Now select a ready made sub-panel that works with your rack panel.

STEP 3



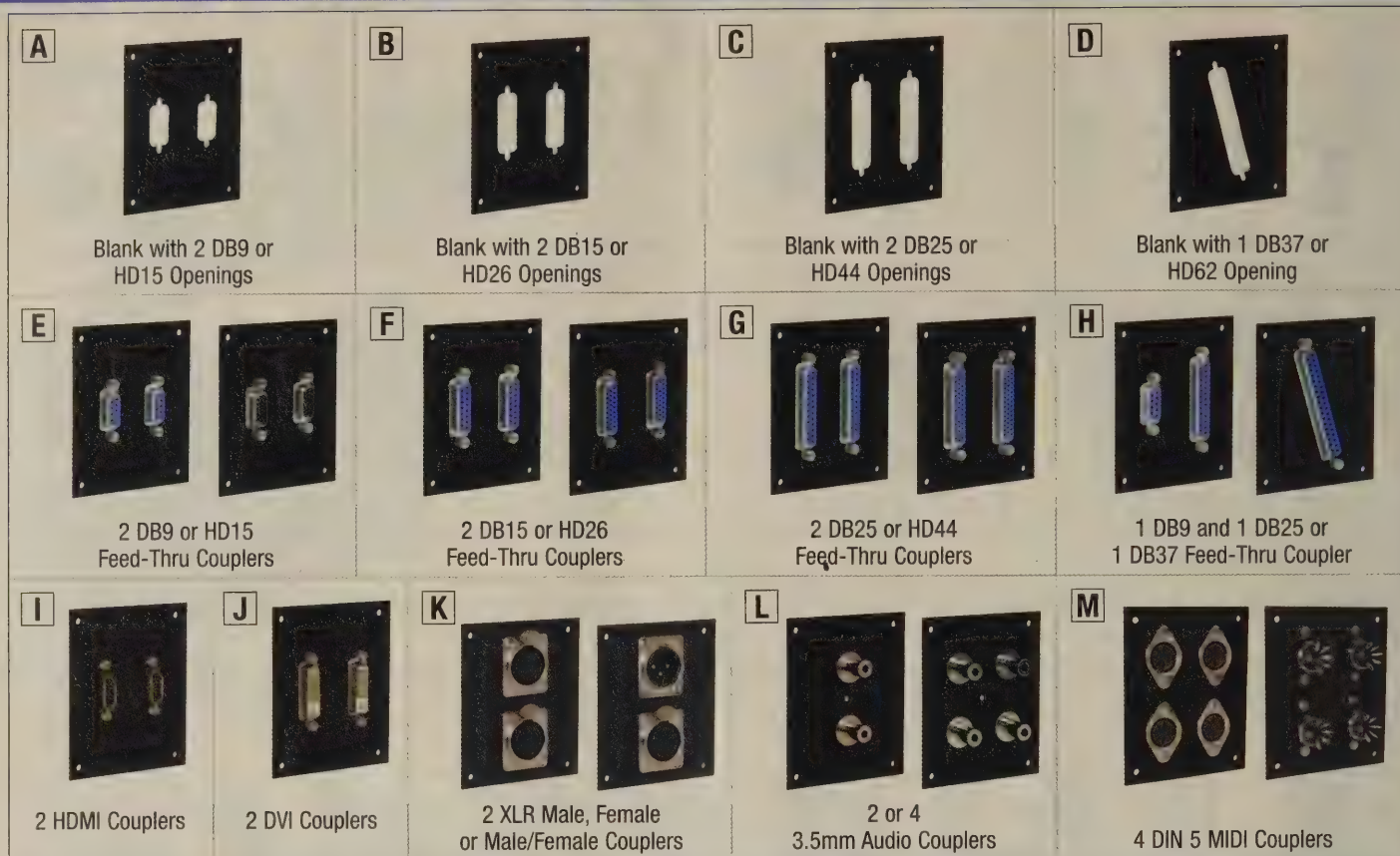
Using a Phillips or Flat screwdriver, install your sub-panels in the master rack panel.



Informative e-mail newsletters

Our newsletters are packed with tips, tutorials, product info and downloads! L-com.com/NewsletterSignUp





Item #	Code	Description	1-9	10-24	25-99	100-249	250-499
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RoHS Universal Series Sub-Panels Featuring D-Sub and Video Connections

The Universal sub-panel series offers connections for D-Sub style cables and Video cables. Installers can choose the sub-panel that fits their specific connection needs. Panel choices are available with up to 2 connections feed-thru style couplers per panel. Blank panels are available for further customization. All panels come equipped with four pre-tapped holes to accept the four 6-32 mounting screws which are supplied.

USP232B	A	Blank Sub-Panel with 2 DB9 / HDB15 Cutouts	5.95	5.71	5.47	5.24	5.00
USP230B	B	Blank Sub-Panel with 2 DB15 / HDB26 Cutouts	5.95	5.71	5.47	5.24	5.00
USP234B	C	Blank Sub-Panel with 2 DB25 / HDB44 Cutouts	5.95	5.71	5.47	5.24	5.00
USP242B	D	Blank Sub-Panel with 1 DB37 / HDB62 Cutout	5.95	5.71	5.47	5.24	5.00
USP2DB9FB	E	Sub-Panel with 2 DB9 Female Couplers	14.95	14.35	13.75	13.16	12.56
USP2HDB15FB	E	Sub-Panel with 2 HDB15 Female Couplers	20.95	20.11	19.27	18.44	17.60
USP2DB15FB	F	Sub-Panel with 2 DB15 Female Couplers	16.95	16.27	15.59	14.92	14.24
USP2HDB26FB	F	Sub-Panel with 2 HDB26 Female Couplers	22.95	22.03	21.11	20.20	19.28
USP2DB25FB	G	Sub-Panel with 2 DB25 Female Couplers	18.95	18.19	17.43	16.68	15.92
USP2HDB44FB	G	Sub-Panel with 2 HDB44 Female Couplers	24.95	23.95	22.95	21.96	20.96
USP-DB9-25FB	H	Sub-Panel with 1 DB9 and 1 DB25 Female Coupler	16.95	16.27	15.59	14.92	14.24
USP-DB37FB	H	Sub-Panel with 1 DB37 Female Coupler	13.95	13.39	12.83	12.28	11.72

RoHS Audio/Video Sub-Panels

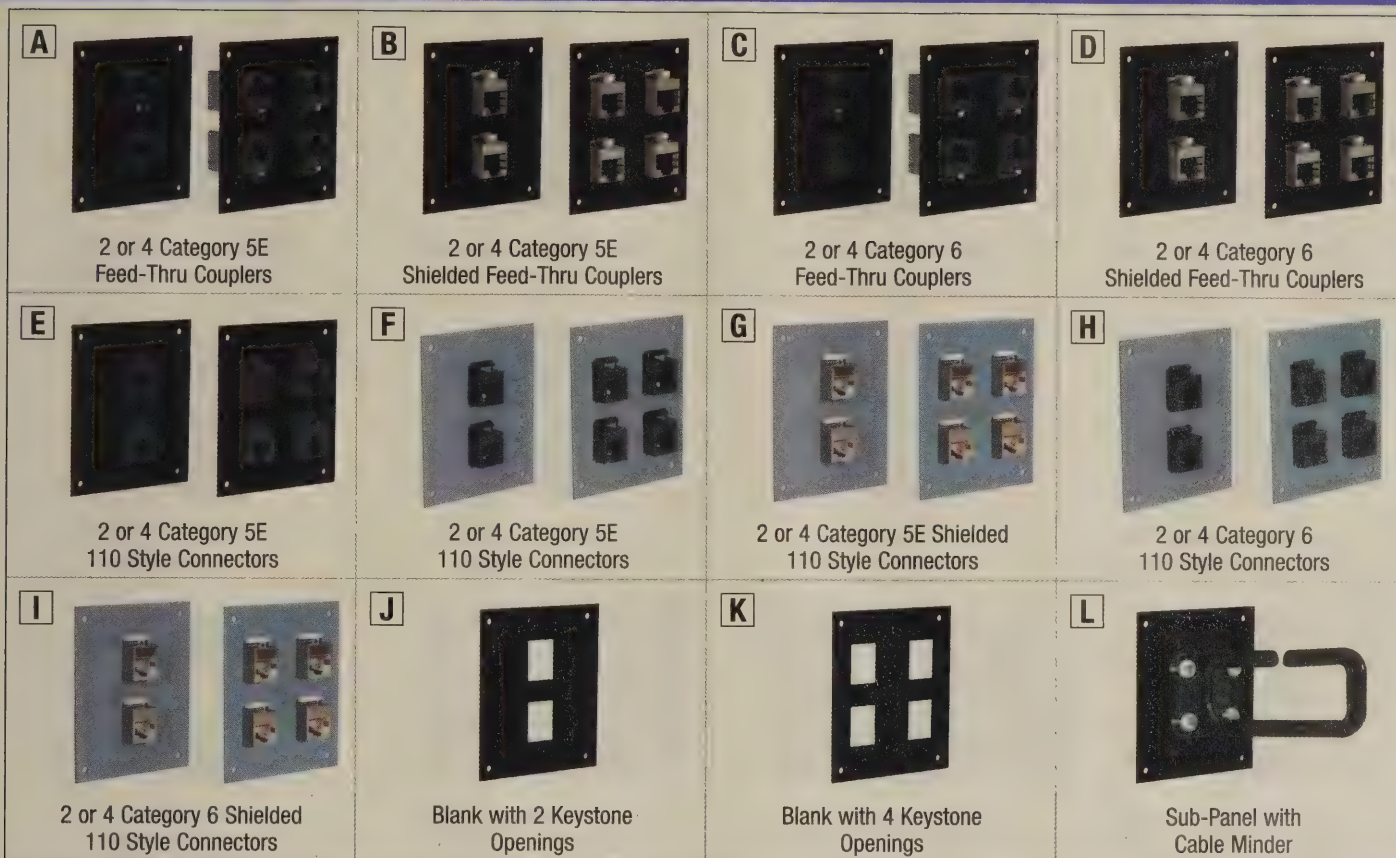
Design and build your own custom rack panel using simple pre-fabricated sub-panels. These steel sub-panels feature dual HDMI or DVI female couplers and have a blue matte finish. Supplied with four 6-32 screws for quick installation into L-com's universal frame.

USP2HDMIB	I	Sub-Panel with 2 HDMI Female Couplers	29.95	28.75	27.55	26.36	25.16
USP2DVB	J	Sub-Panel with 2 DVI Female Couplers	24.95	23.95	22.95	21.96	20.96
USP2XLRM	K	Sub-Panel with 2 XLR Male Couplers	12.95	12.43	11.91	11.40	10.88
USP2XLRF	K	Sub-Panel with 2 XLR Female Couplers	12.95	12.43	11.91	11.40	10.88
USP2XLRMF	K	Sub-Panel with 1 XLR Male Coupler and 1 XLR Female Coupler	12.95	12.43	11.91	11.40	10.88
USP2-35MM	L	Sub-Panel with 2 35mm Audio Couplers	9.95	9.55	9.15	8.76	8.36
USP4-35MM	L	Sub-Panel with 4 35mm Audio Couplers	13.95	13.39	12.83	12.28	11.72
USP4MIDI	M	Sub-Panel with 4 DIN 5 MIDI Female Couplers	22.95	22.03	21.11	20.20	19.28

Universal Series Sub-Panel Accessories

Users can keep extra adapters handy with the optional drawer that fits into a sub-panel opening. A D-Ring style cable manager mounted to a sub-panel allows a convenient way to secure cables on the rack panel.

USP-CM134	Sub-Panel Mounted Cable D-Ring	9.95	9.55	9.15	8.76	8.36
USP-D2	Sub-Panel Mounted Drawer, 6" Depth	19.95	19.15	18.35	17.56	16.76



Item #	Code	Description	1-9	10-24	25-99	100-249	250-499
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RoHS Universal Series Sub-Panels Featuring Telecom/Network Grade Connections

The Universal sub-panel series offers connections for telecom and network equipment. Choose between Category 5E or Category 6 rated connections either shielded or non-shielded. Panel choices offer both feed-thru style couplers and jacks with 110 style punch terminations. Either 2 or 4 connections per panel can be chosen and blank panels are available for further customization. All panels are Black steel and come equipped with four pre-tapped holes to accept the four 6-32 mounting screws which are supplied.

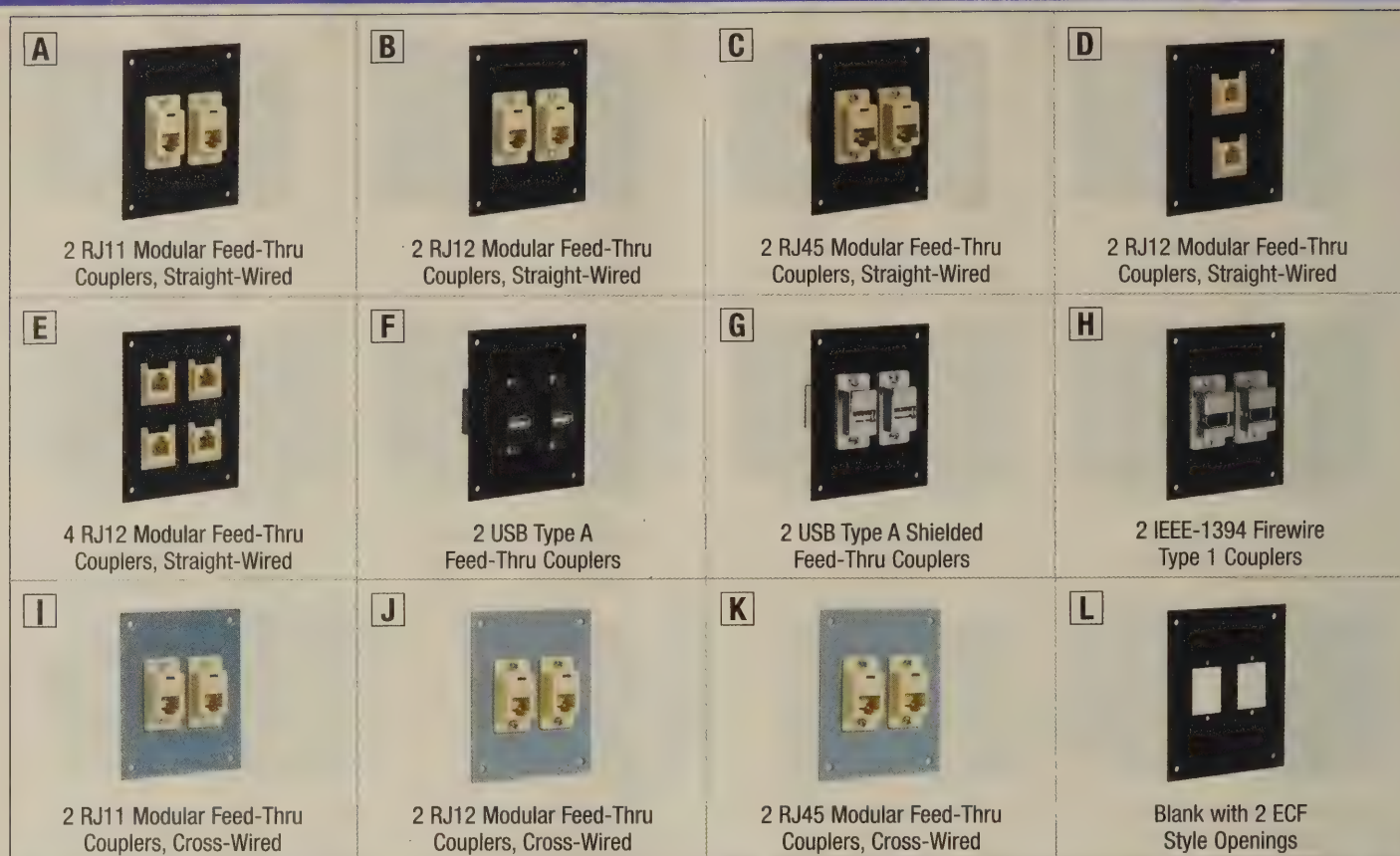
USP2MC5B	A	Sub-Panel with 2 Category 5E RJ45 Couplers	19.95	19.15	18.35	17.56	16.76
USP4MC5B	A	Sub-Panel with 4 Category 5E RJ45 Couplers	29.95	28.75	27.55	26.36	25.16
USP2SMC5B	B	Sub-Panel with 2 Category 5E RJ45 Couplers, Shielded	22.95	22.03	21.11	20.20	19.28
USP4SMC5B	B	Sub-Panel with 4 Category 5E RJ45 Couplers, Shielded	49.95	47.95	45.95	43.96	41.96
USP2MC6B	C	Sub-Panel with 2 Category 6 RJ45 Couplers	17.95	17.23	16.51	15.80	15.08
USP4MC6B	C	Sub-Panel with 4 Category 6 RJ45 Couplers	24.95	23.95	22.95	21.96	20.96
USP2SMC6B	D	Sub-Panel with 2 Category 6 RJ45 Couplers, Shielded	26.95	25.87	24.79	23.72	22.64
USP4SMC6B	D	Sub-Panel with 4 Category 6 RJ45 Couplers, Shielded	49.95	47.95	45.95	43.96	41.96
USP2MK-C5B	E	Sub-Panel with 2 Category 5E RJ45/110 Punch Connectors, Black	12.95	12.43	11.91	11.40	10.88
USP4MK-C5B	E	Sub-Panel with 4 Category 5E RJ45/110 Punch Connectors, Black	19.95	19.15	18.35	17.56	16.76
USP2MK-C5	F	Sub-Panel with 2 Category 5E RJ45/110 Punch Connectors, Blue	12.95	12.43	11.91	11.40	10.88
USP4MK-C5	F	Sub-Panel with 4 Category 5E RJ45/110 Punch Connectors, Blue	19.95	19.15	18.35	17.56	16.76
USP2MK-SC5	G	Sub-Panel with 2 Category 5E RJ45/110 Punch Connectors, Shielded, Blue	19.95	18.35	16.76	15.16	13.57
USP4MK-SC5	G	Sub-Panel with 4 Category 5E RJ45/110 Punch Connectors, Shielded, Blue	29.95	27.55	25.16	22.76	20.37
USP2MK-C6	H	Sub-Panel with 2 Category 6 RJ45/110 Punch Connectors, Blue	23.48	22.07	20.66	19.25	17.84
USP4MK-C6	H	Sub-Panel with 4 Category 6 RJ45/110 Punch Connectors, Blue	36.47	34.28	32.09	29.91	27.72
USP2MK-SC6	I	Sub-Panel with 2 Category 6 RJ45/110 Punch Connectors, Shielded, Blue	24.95	22.95	20.96	18.96	16.97
USP4MK-SC6	I	Sub-Panel with 4 Category 6 RJ45/110 Punch Connectors, Shielded, Blue	34.95	32.15	29.36	26.56	23.77
USP238B	J	Blank Sub-Panel with 2 Keystone Openings, Pre-Punched	5.95	5.71	5.47	5.24	5.00
USP231B	K	Blank Sub-Panel with 4 Keystone Openings, Pre-Punched	5.95	5.71	5.47	5.24	5.00

Universal Series Sub-Panel Mounted Cable D-Ring

A D-Ring style cable manager mounted to a sub-panel allows a convenient way to secure cables on the rack panel.

USP-CM134B	L	Sub-Panel Mounted Cable D-Ring	9.95	9.55	9.15	8.76	8.36
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For more useful information go to...
www.L-com.com/Resources



Item #	Code	Description	1-9	10-24	25-99	100-249	250-499
RoHS Universal Series Sub-Panels Featuring Telecom, USB and Firewire Connections							
The Universal sub-panel series offers connections for today's modern computer systems. Installers can choose the sub-panel that fits their specific connection needs. Panels come in a choice of feed-thru style couplers with either 2 or 4 connections per panel. A blank panel is available for further customization. All panels are Black steel and come equipped with four pre-tapped holes to accept the four 6-32 mounting screws which are supplied.							
USP2ECF4SB	A	Sub-Panel with 2 RJ11 (6x4) Couplers, Straight Wired	9.95	9.55	9.15	8.76	8.36
USP2ECF6SB	B	Sub-Panel with 2 RJ12 (6x6) Couplers, Straight Wired	10.30	9.89	9.48	9.06	8.65
USP2ECF8SKB	C	Sub-Panel with 2 RJ45 (8x8) Couplers, Straight Wired	11.50	11.04	10.58	10.12	9.66
USP2MB	D	Sub-Panel with 2 RJ12 (6x6) Couplers, Straight Wired	10.30	9.89	9.48	9.06	8.65
USP4MB	E	Sub-Panel with 4 RJ12 (6x6) Couplers, Straight Wired	16.90	16.22	15.55	14.87	14.20
USP2ECF-UABB	F	Sub-Panel with 2 USB Type A to Type B Couplers	14.95	14.35	13.75	13.16	12.56
USP2ECF-UABSB	G	Sub-Panel with 2 USB Type A to Type B Couplers, Shielded	18.95	18.19	17.43	16.68	15.92
USP2ECF-94MSB	H	Sub-Panel with 2 Firewire Type 1 Couplers, Shielded	24.95	23.95	22.95	21.96	20.96
USP2ECF4C	I	Sub-Panel with 2 RJ11 (6x4) Couplers, Cross Wired	9.85	9.26	8.67	8.08	7.49
USP2ECF6C	J	Sub-Panel with 2 RJ12 (6x6) Couplers, Cross Wired	10.30	9.68	9.06	8.45	7.83
USP2ECF8C	K	Sub-Panel with 2 RJ45 (8x8) Couplers, Cross Wired	11.50	10.81	10.12	9.43	8.74
USP229B	L	Blank Sub-Panel with 2 ECF Style Openings, Pre-Punched	5.95	5.83	5.71	5.59	5.47

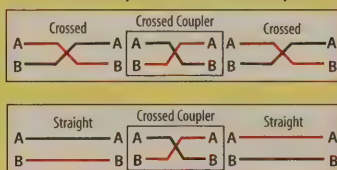


What is the difference between straight-thru and cross pinning on a modular cable or coupler?

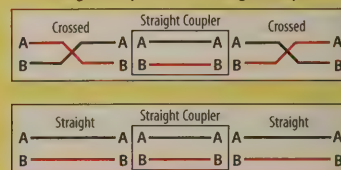
Straight-thru means each contact is straight pinned to its respective contact (1-1, 2-2, 3-3, etc.). Crossed pinning means contacts are pinned through to the opposite contact. Example: On an 8 position RJ45: 1-8, 2-7, 3-6, etc.

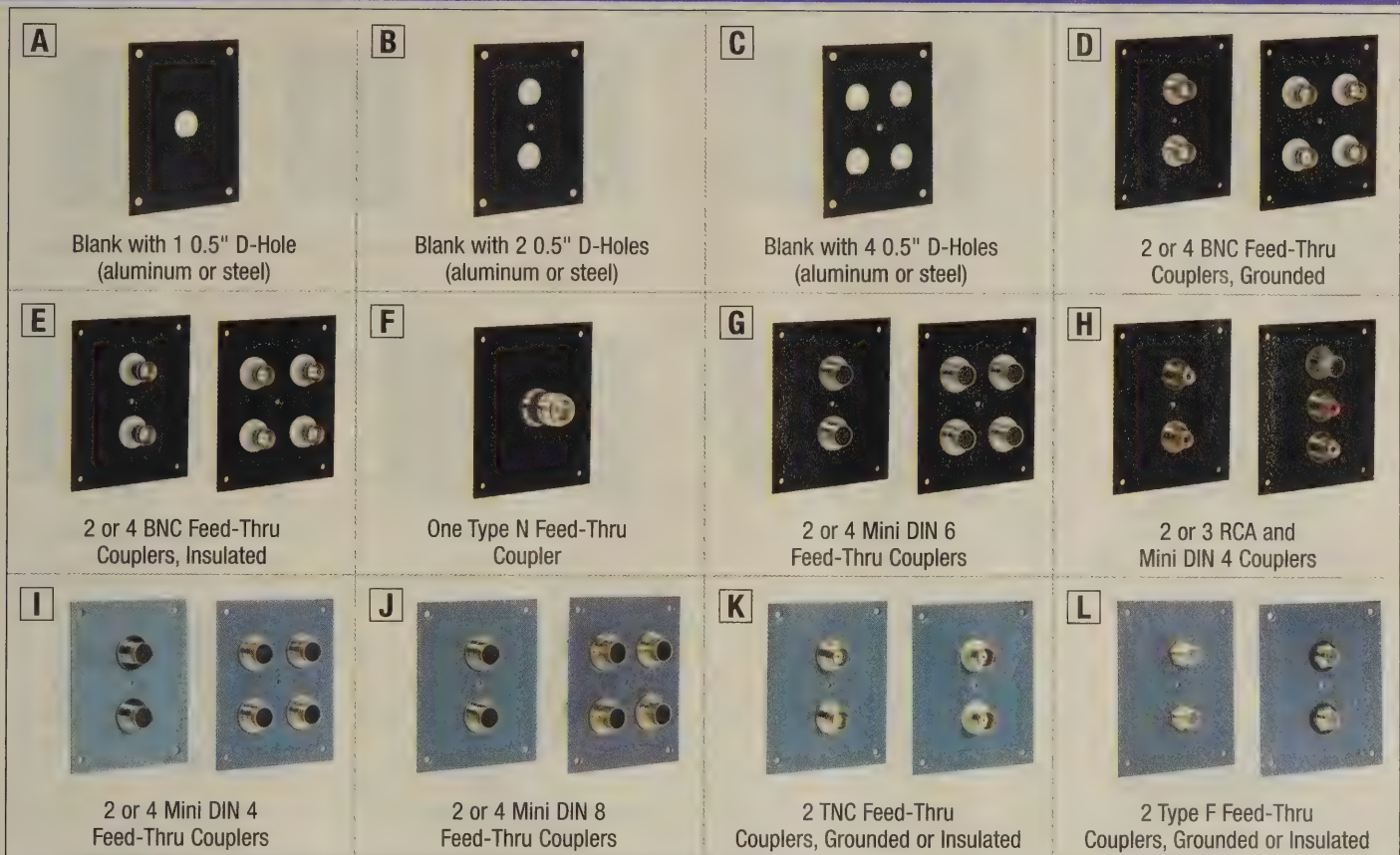
When using a coupler between two patch cords it is important to choose the correct type. As the diagrams illustrate, if the desired pinning from end to end is crossed then the coupler and cables must be crossed. For straight pinning, all cables and couplers must be straight-thru type.

Crossed Couplers with Crossed Output



Straight Couplers with Straight Output





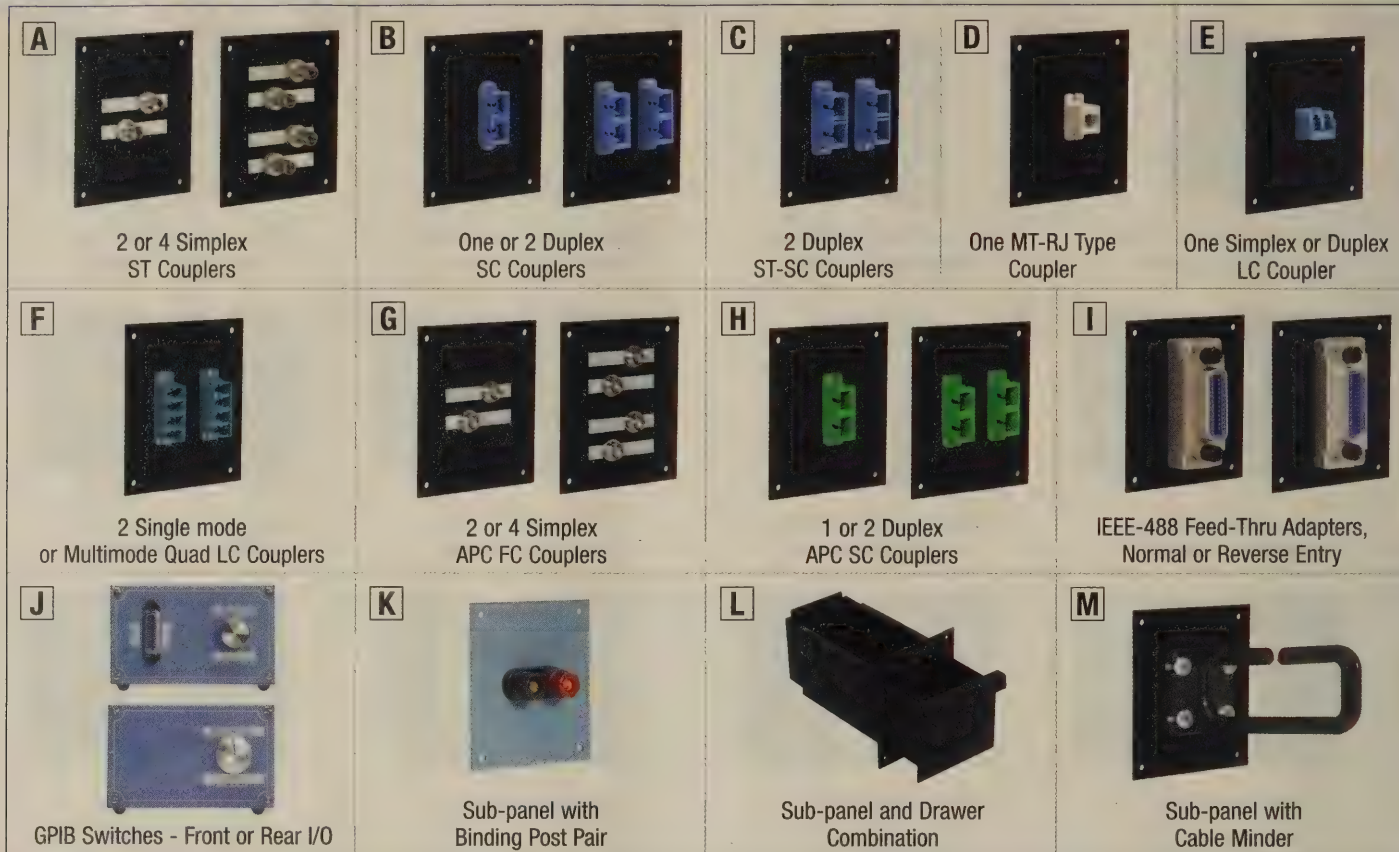
Item #	Code	Description	1-9	10-24	25-99	100-249	250-499
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Universal Series Sub-Panels Featuring Coaxial and Mini DIN Couplers

The Universal sub-panel series offers connections for data transmission over coaxial and DIN style connectors. Installers can choose the sub-panel that fits their specific connection needs. Panel choices offer feed-thru style couplers in either 2 or 4 connections per panel or blank panels are also available for further customization. All panels come equipped with four pre-tapped holes to accept the four 6-32 mounting screws which are supplied.

USP-A1	A	Blank Sub-Panel with 1 0.5" D-Hole, Black Aluminum	4.95	4.85	4.75	4.65	4.55
USP-A2	B	Blank Sub-Panel with 2 0.5" D-Holes, Black Aluminum	4.95	4.85	4.75	4.65	4.55
USP-A4	C	Blank Sub-Panel with 4 0.5" D-Holes, Black Aluminum	4.95	4.85	4.75	4.65	4.55
USP221B	A	Blank Sub-Panel with 1 0.5" D-Hole, Black Steel	4.95	4.85	4.75	4.65	4.55
USP222B	B	Blank Sub-Panel with 2 0.5" D-Holes, Black Steel	4.95	4.85	4.75	4.65	4.55
USP224B	C	Blank Sub-Panel with 4 0.5" D-Holes, Black Steel	4.95	4.85	4.75	4.65	4.55
USP2BB	D	Sub-Panel with 2 BNC Couplers	13.95	13.39	12.83	12.28	11.72
USP4BB	D	Sub-Panel with 4 BNC Couplers	21.95	21.07	20.19	19.32	18.44
USP2BDB	E	Sub-Panel with 2 BNC Couplers, Insulated	14.95	14.35	13.75	13.16	12.56
USP4BDB	E	Sub-Panel with 4 BNC Couplers, Insulated	24.95	23.95	22.95	21.96	20.96
USP1NB	F	Sub-Panel with 1 Type N Coupler	19.95	19.15	18.35	17.56	16.76
USP2MD6B	G	Sub-Panel with 2 Mini DIN 6 Couplers	19.95	19.15	18.35	17.56	16.76
USP4MD6B	G	Sub-Panel with 4 Mini DIN 6 Couplers	34.95	33.55	32.15	30.76	29.36
USP2RCAB	H	Sub-Panel with 2 RCA Couplers, Red/White	12.95	12.43	11.91	11.40	10.88
USP3RCAB	H	Sub-Panel with 3 RCA Couplers, Yellow/Red/White	13.95	13.39	12.83	12.28	11.72
USP3RCA-CB	H	Sub-Panel with 3 RCA Couplers, Green/Blue/Red	13.95	13.39	12.83	12.28	11.72
USP1SVD2RCAB	H	Sub-Panel with 1 Mini DIN 4 and 2 RCA Couplers	22.95	22.03	21.11	20.20	19.28
USP2MD4	I	Sub-Panel with 2 Mini DIN 4 Couplers	19.35	18.19	17.03	15.87	14.71
USP4MD4	I	Sub-Panel with 4 Mini DIN 4 Couplers	34.35	32.29	30.23	28.17	26.11
USP2MD8	J	Sub-Panel with 2 Mini DIN 8 Couplers	20.55	19.32	18.08	16.85	15.62
USP4MD8	J	Sub-Panel with 4 Mini DIN 8 Couplers	36.75	34.54	32.34	30.14	27.93
USP2T	K	Sub-Panel with 2 TNC Couplers	10.65	10.01	9.37	8.73	8.09
USP2TD	K	Sub-Panel with 2 TNC Couplers, Insulated	11.25	10.58	9.90	9.23	8.55
USP2F	L	Sub-Panel with 2 Type F Couplers	7.95	7.47	7.00	6.52	6.04
USP2FD	L	Sub-Panel with 2 Type F Couplers, Insulated	8.95	8.41	7.88	7.34	6.80

"L-com has been supplying my group with high quality networking products at competitive prices and fast delivery for over 5 years. They have done a great job in supplying me with custom panels and cables that I use in my newly built High Availability Data Center. L-com is a great company with great products. I would recommend them." - Steven Esposito, HP.com



Item #	Code	Description	1-9	10-24	25-99	100-249	250-499
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Universal Series Sub-Panels Featuring Fiber Optic Couplers

The Universal sub-panel series offers connections for fiber networks. Panel choices available offer up to four fiber couplers in ST, SC, MTRJ or LC connections. All panels are Blue steel and come equipped with four pre-tapped holes to accept the four 6-32 mounting screws which are supplied.

USP2FOPTB	A	Sub-Panel with 2 Simplex ST Couplers	14.95	14.35	13.75	13.16	12.56
USP4FOPTB	A	Sub-Panel with 4 Simplex ST Couplers	19.95	19.15	18.35	17.56	16.76
USP1FOPT-DSCB	B	Sub-Panel with 1 Duplex SC Coupler	16.95	16.27	15.59	14.92	14.24
USP2FOPT-DSCB	B	Sub-Panel with 2 Duplex SC Couplers	19.95	19.55	19.15	18.75	18.35
USP2FOPT-DSCTB	C	Sub-Panel with 2 Duplex ST-SC Adapters	25.95	25.43	24.91	24.39	23.87
USP1FOPT-MTRJB	D	Sub-Panel with 1 MTRJ Coupler	24.95	23.95	22.95	21.96	20.96
USP1FOPT-LCSDB	E	Sub-Panel with 1 Duplex LC Coupler	12.95	12.43	11.91	11.40	10.88
USP2QD-MM	F	Sub-Panel with 2 Multimode Quad LC Couplers	24.95	23.95	22.95	21.96	20.96
USP2QD-SM	F	Sub-Panel with 2 Single mode Quad LC Couplers	39.95	38.35	36.75	35.16	33.56
USP2FC-APC	G	Sub-Panel with 2 Simplex APC FC Couplers	26.95	26.41	25.87	25.33	24.79
USP4FC-APC	G	Sub-Panel with 4 Simplex APC FC Couplers	42.95	42.09	41.23	40.37	39.51
USP1DSC-APC	H	Sub-Panel with 1 Duplex APC SC Coupler	23.95	23.47	22.99	22.51	22.03
USP2DSC-APC	H	Sub-Panel with 2 Duplex APC SC Couplers	25.95	25.43	24.91	24.39	23.87

Universal Series Sub-Panels Featuring GPIB (IEEE-488) Couplers and Switch Boxes

The Universal sub-panel series offers couplers and switch boxes for IEEE-488 cabling installations. Panels come with either a standard GPIB coupler or a reverse entry style coupler mounted. We also carry a line of GPIB Switch Boxes that can be mounted into the Universal Series Master Frames. All panels are Blue steel and come equipped with four pre-tapped holes to accept the four 6-32 mounting screws which are supplied.

USP24BFB	I	Sub-Panel with 1 IEEE-488 (GPIB) Normal Entry Coupler	34.95	33.55	32.15	30.76	29.36
USP24BFRB	I	Sub-Panel with 1 IEEE-488 (GPIB) Reverse Entry Coupler	34.95	33.55	32.15	30.76	29.36
USP-GOAB	J	Switch Box, A to Rear I/O, B to Rear I/O, Off	77.00	75.46	73.92	72.38	70.84
USP-GABX2	J	Switch Box, A or B to Front I/O, A and B to Front I/O	77.00	75.46	73.92	72.38	70.84
USP-GABX3	J	Switch Box, A or B to Front I/O, A and B to Front I/O	77.00	75.46	73.92	72.38	70.84

Universal Series Sub-Panels Featuring Binding Post Connections for Test Applications

The Universal sub-panel series offers connections for test applications. All panels are Blue steel and come equipped with four pre-tapped holes to accept the four 6-32 mounting screws which are supplied.

USP-BPR	K	Sub-Panel with Binding Post Pair, Black/Red	8.95	8.41	7.88	7.34	6.80
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Universal Series Sub-Panel Accessories

Users can keep extra adapters handy with the optional drawer that fits into a sub-panel opening. A D-Ring style cable manager mounted to a sub-panel allows a convenient way to secure cables on the rack panel.

USP-D2B	L	Sub-Panel Mounted Drawer, 6" Depth	19.95	19.15	18.35	17.56	16.76
USP-CM134B	M	Sub-Panel Mounted Cable D-Ring	9.95	9.55	9.15	8.76	8.36



Item #	Description	1-9	10-24	25-99	100-249	250-499
Domestic and International Power Cords - UL/CSA or European Approved						
L-com now stocks several popular external power cords for domestic, international and medical applications. All assemblies are fully molded and meet the required safety specifications.						
RoHS Domestic Power Cords - UL/CSA Approved						
Connector options include N5/15, C7, C13, N1/15 and a pigtail end. Heavy duty cable is 18 AWG, color is Black.						
PCM1000	Power Cord SPT2-18 AWG, N1/15P-EN60320C7, UL/CSA, 6'7"	3.95	3.79	3.63	3.48	3.32
PCM1010	Power Cord SVT3-18 AWG, N5/15-Pigtail, UL/CSA, 6'7"	4.95	4.75	4.55	4.36	4.16
PCM1012	Power Cord SVT3-18 AWG, N5/15-EN60320C13, UL/CSA, 7'6"	5.45	5.23	5.01	4.80	4.58
PCM1014	Power Cord SJT3-18 AWG, N5/15-EN60320C13, UL/CSA, 9'10"	5.95	5.71	5.47	5.24	5.00

Colored Domestic Power Cords - UL/CSA Approved

PCM1012-B	Power Cord SVT3-18 AWG, N5/15-EN60320C13, UL/CSA, 7'6", Blue	5.95	5.71	5.47	5.24	5.00
PCM1012-G	Power Cord SVT3-18 AWG, N5/15-EN60320C13, UL/CSA, 7'6", Green	5.95	5.71	5.47	5.24	5.00
PCM1012-R	Power Cord SVT3-18 AWG, N5/15-EN60320C13, UL/CSA, 7'6", Red	5.95	5.71	5.47	5.24	5.00
PCM1012-Y	Power Cord SVT3-18 AWG, N5/15-EN60320C13, UL/CSA, 7'6", Yellow	5.95	5.71	5.47	5.24	5.00

RoHS Hospital Grade Power Cords - UL/CSA Approved

Connectors are Hospital Grade N5/15 to C13. 18 AWG cable is Gray, connector mold options are Gray and Clear.

PCM1050	Power Cord Gray Mold, SJT3-18 AWG, N5/15-EN60320C13, UL/CSA, 10'	9.45	9.07	8.69	8.32	7.94
PCM1052	Power Cord Clear Mold, SJT3-18 AWG, N5/15-EN60320C13, UL/CSA, 10'	9.45	9.07	8.69	8.32	7.94

RoHS European Power Cords - Meets VDE and Several Other Approvals

Connector options are CEE7/7 to C13 and EN50075 to C7, color is Black.

PCM1020	Power Cord H05VVf3Gx1.00mm, CEE7/7- EN60320C13, VDE, 8'2"	7.95	7.63	7.31	7.00	6.68
PCM1030	Power Cord H03VVH2F2X0.75mm, EN50075-EN60320C7, VDE, 6'	6.95	6.67	6.39	6.12	5.84

RoHS Universally Approved Jumper Cords - Domestic and European Approved, UL/CSA, VDE

Connectors are C13 to C14, lengths are 3'3", 6'7" and 9'10". Heavy duty cable is 18 AWG, color is Black.

PCM1040	Power Cord SJT3-18 AWG, EN60320C13/C14, UL/CSA VDE, 3'3"	4.95	4.75	4.55	4.36	4.16
PCM1042	Power Cord SJT3-18 AWG, EN60320C13/C14, UL/CSA VDE, 6'7"	5.95	5.71	5.47	5.24	5.00
PCM1044	Power Cord SJT3-18 AWG, EN60320C13/C14, UL/CSA VDE, 9'10"	6.95	6.67	6.39	6.12	5.84

Switching Power Supplies, Power Cords, PoE Power Supplies and Lighter Power Adapters

We offer a broad range of switching power supplies which support 110/220 VAC operation. Models in this series include 9 VDC, 12 VDC, 15 VDC and 48 VDC options. Additionally, PoE power supplies are available which provide data and power over a single CAT5 cable to end devices which are compliant with IEEE standard PoE pinout (Pins 4&5 Power +/Pins 7&8 Power -).

The HyperLink brand PS4820-POE is a power supply with integral DC Injector. It provides DC power for one PoE-equipped device by "Injecting" DC power through the CAT5 Ethernet cable. It is compatible with AP's and other equipment supporting the IEEE standard PoE pinout (Pins 4&5 Power +/Pins 7&8 Power -). This unit can also be used with Cisco PoE equipment using the optional PoE conversion cable.

Since the PS4820-POE is completely self-contained, a separate power supply and injector is not required. The PS4820-POE features an impact resistant polycarbonate enclosure and includes a 3-prong detachable power cord.

- 9V, 12V, 15V, 48 VDC models available
- Use with PoE injectors/taps, wireless radios, RF amplifiers and more
- 20 W and 60 W PoE power supplies

RoHS Switching Power Supplies

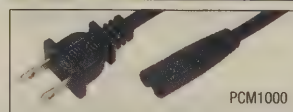
PS909-21R	9 VDC @ 1A (9W), 2.1mm DC Plug	9.99	9.59	9.19	8.49	7.49
PS1212-21R	12 VDC @ 1A (12W), 2.1mm Right Angle DC Plug	21.99	21.11	20.23	18.69	16.49
PS1224-21R	12 VDC @ 2A (24W), 2.1mm Right Angle DC Plug	24.99	23.99	22.99	21.24	18.74
PS1240-21R	12 VDC @ 3.33A (40W), 2.1mm Right Angle DC Plug	64.99	62.39	59.79	55.24	48.74
PS1566	15 VDC @ 4.4A (66W), 2.1mm DC Plug	89.99	86.39	82.79	76.49	67.49
PS4820-POE	48 VDC @ 0.83A (20W), Dual RJ45 PoE, Includes Power Cord	39.99	38.39	36.79	33.99	29.99
PS4870-25R	48 VDC @ 1.5A (70W), 2.5mm Right Angle DC Plug	99.99	95.99	91.99	84.99	74.99
PS4848-25R	48 VDC @ 1A (48W) 2.5mm Right Angle DC Plug	49.99	47.99	45.99	42.49	37.49
PS4860-POE	48 VDC @ 1.25A (60W), Dual RJ45 PoE, Requires PSCORD3	74.99	71.99	68.99	63.74	56.24

12 VDC to 48 VDC Converter/Regulator

PS-LIGHTER-06	Cigarette Plug to 2.1mm Right Angle DC Plug, 3A Fuse, 6ft	9.99	9.59	9.19	8.49	7.49
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RoHS Accessories

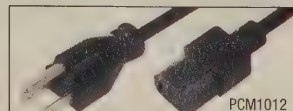
PSX-EU1	US Flat or Euro Round to Euro 4.8mm Round A/C Adapter	3.99	3.59	3.19	2.79	2.39
PSX-EU2	EU 4/4.8mm Round to US NEMA 6-15R Flat A/C Adapter	3.99	3.87	3.75	3.63	3.51
PSCORD2	2 Conductor Plug, USA/AC Power Cord, 1ft	3.99	3.59	3.19	2.79	2.39
PSCORD3	3 Conductor Plug, USA/AC Power Cord, 1ft	2.99	2.75	2.51	2.27	2.03
CA-POE-02	CAT5 PoE Conversion Cable for Cisco APs, 2ft	14.99	13.49	11.99	10.49	8.99



PCM1000

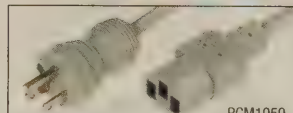


PCM1010

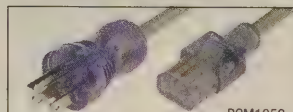


PCM1012
PCM1014

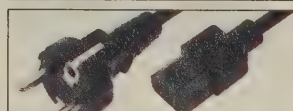
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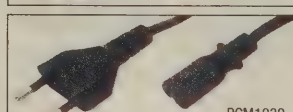
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PCM1052



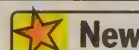
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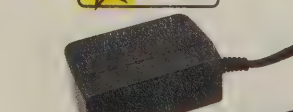
PCM1030



PCM1040
PCM1042
PCM1044



New



PS1212-21R



PS1224-21R



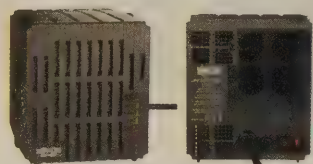
PS4820-POE



Certifications

A complete company documentation package is available for download. L-com.com/Profile

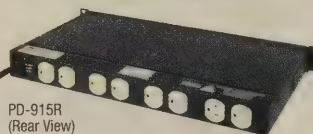
TL-SS7415-15



TL-LC1200



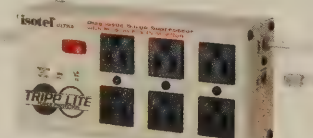
TL-PS606-HG

PD-915R
(Rear View)

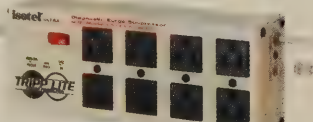
TL-RS1215

TL-IBAR12
(rack mount)

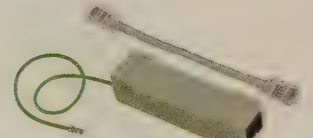
TL-ISOTEL6



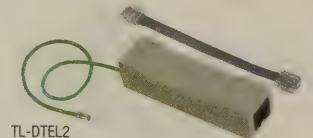
TL-ISOTEL8



TL-DNET1



TL-DTEL2



Trip Lite 16 and 24 Outlet Power Strips with Surge Suppression

These Trip Lite power strips with AC surge suppression offer a convenient method of horizontal or vertical power distribution in equipment racks, computer rooms, workbenches, raceways and more. By utilizing these power strips you can protect connected equipment from transient surges and line noise with built-in surge suppression rated at 450 joules. Corded, multi-outlet strip reduces cabling clutter and enables the connection of multiple electrical devices to a single AC wall socket. Features rugged all-metal housing, lighted power switch with transparent guard to prevent accidental shutoff, 15A resettable circuit breaker and attractive gray housing with black output receptacles. Order today!

Item #	System Type	Number of Outlets	Dimensions (Inches)	Shipping Weight	Price
TL-SS7415-15	Surge Only	16	48w x 1.5h x 1.5d	4.5	75.00
TL-SS7619-15	Surge Only	24	72w x 1.5h x 1.5d	6	89.00

Trip Lite Desktop Tower Line Conditioners

Trip Lite's desktop tower series of line conditioners protect computer accessories and home theater equipment from power-related damage and performance problems. These line conditioners also extend the useful life of connected equipment by providing optimum voltage conditions for enhanced efficiency and cooler internal operating temperatures. Features include reliable transformer-based voltage correction circuits which maintain 120V nominal output during voltage fluctuations between 89 and 147V. Three levels of voltage stabilization offer targeted response for over voltages, under voltages and severe brownouts.

Item #	System Type	Number of Outlets	Dimensions (Inches)	Shipping Weight	Price
TL-LC1200	Surge Only	4	6.75w x 5.75h x 6.75d	9	139.00
TL-LC1800	Surge Only	6	6.75w x 5.75h x 6.75d	10.5	199.00
TL-LC2400	Surge Only	6	6.75w x 5.75h x 6.75d	12.5	269.00

Trip Lite Hospital Grade Power Strip

Trip Lite's PS-606-HG power strip offers 15A capacity AC power distribution in a rugged, all-metal outlet strip for 120V applications. This robust power strip features 6 hospital-grade receptacles, a 6 foot power cord, and built-in 15A resettable circuit breaker. Switchless design prevents accidental shutoff. Also includes optional-use keyhole mounting tabs and flanges. Order today!

Item #	System Type	Number of Outlets	Dimensions (Inches)	Shipping Weight	Price
TL-PS606-HG	Non-surge	6	10.5w x 13.75h x 2.5d	4	74.95

RoHS 19" x 1 3/4" Rackmountable Power Distribution Unit with Surge Protection

The PD-915R rackmount power distribution unit is equipped with 8 rear outlets and one front outlet. Standard equipment includes surge and spike protection, EMI filtering and a 9 ft cord. A generous 8 3/4" depth offers easy access to the 15 amp rear panel outlets which are solidly mounted on yokes to eliminate deflection. An illuminated combination power switch/circuit breaker is located on the front panel. Occupies one rackspace, finished with a durable Black powder coat. UL recognized, listing pending.

Item #	System Type	Number of Outlets	Dimensions (Inches)	Rack Mounting	Shipping Weight	Price
PD-915R	Surge Only	9	7.5w x 1.75h x 8.75d	1 Space	8.5	86.63

Trip Lite Rack Mount Power Strip

This rack mount power strip packs many useful features into a slim single rack space of 1.75" height. Outlets are conveniently located on both sides of the unit. Two-year manufacturer's warranty.

Item #	System Type	Number of Outlets	Dimensions (Inches)	Rack Mounting	Shipping Weight	Price
TL-RS1215	Non-Surge	12	17.5w x 1.75h x 4.5d	1 Space	4	49.95

Note: This power strip *does not* provide surge or line noise protection.

Trip Lite Network Grade Rackmount Surge Suppressor

Trip Lite's IBAR12 offers network-grade surge and noise suppression in a versatile all-metal multi-mount cabinet. Detachable mounting flanges are configurable for rackmount (1U), wallmount and under-counter installation. Features network grade AC surge suppression with EMI/RFI noise filtering. Outlets are arranged in exclusive isolated filter banks to limit noise interaction among connected items. Includes 12 outlets (2 front / 10 rear), 15 ft AC power cord and guarded power switch to reduce the risk of accidental shutoff. Diagnostic LEDs indicate AC present, line fault and protection status.

Item #	System Type	Number of Outlets	Dimensions (Inches)	Rack Mounting	Shipping Weight	Price
TL-IBAR12	Surge Only	12	17.5w x 1.75h x 4d	1 Space	6.5	129.00

Trip Lite Isotel Premium AC Line Surge Suppressors

Protect your equipment from damaging surges and line noise with these rugged all metal suppressors. Featuring internal noise filter banks that isolate noisy equipment. A combination of metal oxide varistors (MOVs) and ferrite rod-core inductors provide one of the highest UL verified energy suppression ratings! Lifetime warranty.

Item #	System Type	Number of Outlets	Dimensions (Inches)	Shipping Weight	Price
TL-ISOTEL6	Surge Only	6	2.5w x 7h x 3.5d	2	69.00
TL-ISOTEL8	Surge Only	8	2.5w x 9h x 3.5d	4	79.00

Trip Lite Network and Telephone Surge Suppressors

Protecting equipment at the power input is not complete protection. Static discharge, lightning and faulty wiring can send damaging surges through data ports. This vulnerability can be easily eliminated with an inline suppressor. In considering the cost of replacing damaged equipment and resultant lost productivity, the cost of protection is truly small. Two-year manufacturer's warranty.

Item #	Connector	Application	Lines Protected	Peak Pulse Clamping Voltage	Maximum Current	Price
TL-DNET1	RJ45	100Base-T, 10Base-T, Token Ring, RS422, AS400	1 - 8	7.5 V	750 Amps	20.95
TL-DTEL2	RJ11 / RJ45	Single and 2 Line Telephone Equipment, RJ11/45	4, 5 and 3, 6 Pairs	260 V	250 Amps	22.95

APC Personal SurgeArrest 8 Outlet

The APC-PER8T Personal SurgeArrest 8 Outlet system provides reliable surge protection for home or office computers and electronic equipment. The PER8T features a right angle power plug and transformer block spacing. Includes a limited lifetime manufacturer's warranty.

Item #	Capacity (VA/Watts)	System Type	Number of Outlets	Backup Time Half/Full Load	Dimensions (Inches)	Shipping Weight	Price
APC-PER8T	N/A	Surge Only	8	N/A	8w x 1.75h x 5.75d	3	20.95

Tripp Lite Internet Office Series Power Back-up System

Tripp Lite's Internet Office standby UPS systems offer complete protection from blackouts, brownouts and transient surges on both AC and dialup modem lines. The Internet Office offers complete power protection in an ultra-compact, flat-pack housing. Includes 3 battery supported outlets for computer, monitor and one vital system peripheral, plus 3 additional surge suppression-only outlets for printers and other system accessories not requiring battery support. A built-in single line RJ11 phone suppression jacks protect modem, fax machine, cordless phone or other peripheral with standard dialup phone connection.

Item #	Capacity (VA/Watts)	System Type	Number of Outlets	Backup Time Half/Full Load	Dimensions (Inches)	Shipping Weight	Price
TL-OFFICE300	300/150	Line Interactive	6	10/4 min	2.6w x 11h x 4.5d	5	75.00
TL-OFFICE500	500/280	Line Interactive	6	5/17 min	4.75w x 8.25h x 7d	16	119.00

Tripp Lite BCPR0 Series Desktop UPS Systems

Tripp Lite's BCPR0600 standby UPS system offers surge suppression and long lasting battery support for personal computers, internetworking equipment and other sensitive electronics. Internal UPS circuits support entry level PC systems for up to 45 minutes during power failures and brownouts so that connected equipment can be shutdown without data loss. Includes 3 battery supported outlets for computer, monitor and one vital system peripheral, plus 3 additional surge suppression-only outlets for printers and other system accessories not requiring battery support. USB port enables optional unattended system shutdown without data loss in the case of extended power failure, USB cable included.

Item #	Capacity (VA/Watts)	System Type	Number of Outlets	Backup Time Half/Full Load	Dimensions (Inches)	Shipping Weight	Price
TL-BCPR0600	600/345	Line Interactive	6	19/7 min	5.25w x 10.75h x 7.25d	19	139.00
TL-BCPR01050	1050/705	Line Interactive	6	23/7 min	7.25w x 11.75h x 7.25d	28.6	369.00
TL-BCPR01400	1400/940	Line Interactive	6	24/8 min	7.25w x 12.75h x 9d	36.4	529.00

Tripp Lite Smart Pro® Intelligent UPS System

The Tripp Lite Smart Pro® Intelligent UPS System is an ideal power protection solution for hubs, routers, switches, telephone systems and other critical moderate power devices. Innovative design packs battery backup and automatic voltage protection into an ultra small rack mountable package only a single rack space (1.75") high! Unattended shutdown capable via an RS232 port (PowerAlert® software included). The battery replacement door is conveniently located on the front panel. Shipping weight is 18.5lb. Two-year manufacturer's warranty.

Item #	Capacity (VA/Watts)	System Type	Number of Outlets	Backup Time Half/Full Load	Dimensions (Inches)	Rack Mounting	Shipping Weight	Price
TL-SMART500RT1U	500/300	Line Interactive	7	17/5 min	17.5w x 1.75h x 11.75d	1 Space	18.8	195.00

Tripp Lite SmartOnline UPS Series

Tripp Lite's SmartOnline UPS Systems provide the highest level of power protection for mission-critical applications. True on-line operation completely isolates connected equipment from all power problems: blackouts, brownouts, surges, line noise, even harmonic distortion. Double-conversion operation continually converts incoming AC power into DC power, and then resynthesizes it back into normal AC power.

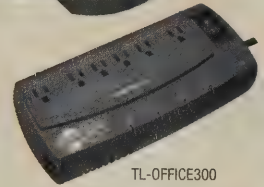
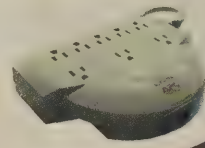
Item #	Capacity (VA/Watts)	System Type	Number of Outlets	Backup Time Half/Full Load	Dimensions (Inches)	Rack Mounting	Shipping Weight	Price
TL-SU750XL	750/600	Line Interactive	6	11/4 min	6.75w x 10h x 13.25d	No	28.7	479.00
TL-SU750RTL2U	750/600	Line Interactive	6	11/4 min	17.5w x 3.5h x 13.5d	2 Space	29	529.00
SU1500RTL2UA	1570/1200	Line Interactive	6	17/5 min	17.5w x 3.5h x 19d	2 Space	44.1	799.00
SU2200RTL2UA	2200/1600	Line Interactive	6	18/5 min	17.5w x 3.5h x 19d	2 Space	47.4	1195.00
SU3000RTR3U	3000/2400	Line Interactive	9	33/14 min	17.75w x 5.25h x 26d	3 Space	111.33	1949.00
SU5000RT4U	5000/3800	Line Interactive	12	17/8 min	17.5w x 7h x 30.75d	4 Space	149.6	3359.00

APC Smart-UPS Power Backup System

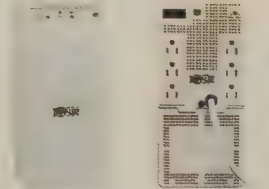
APC's Smart-UPS Power Backup System protects your data by supplying network-grade battery backup when power fails. The Smart-UPS series offers full time EMI/RFI filters preventing line noise from causing data errors. With PowerChute® software the uninterruptible power supply (UPS) will safely store data and shut down the network operating system before the battery is fully discharged. The product automatically performs a self-test every two weeks. This will alert users of degraded batteries before they wear out. Using with the software, or the push of a button, users may perform self-tests anytime. Includes a limited lifetime manufacturer's warranty.

Item #	Capacity (VA/Watts)	System Type	Number of Outlets	Backup Time Half/Full Load	Dimensions (Inches)	Rack Mounting	Shipping Weight	Price
APC-SC420	420/260	Line Interactive	4	13.5/5.5 min	4.7w x 6.6h x 14.5d	N/A	22	139.00
APC-SUA1000RM2U	1000/670	Line Interactive	6	29.9/8.8 min	19w x 3.5h x 18d	2 Space	69.5	589.00
APC-SUA2200RM2U	2200/1980	Line Interactive	8	15.7/5.2 min	19w x 3.5h x 26d	2 Space	125	1129.00

APC-PER8T



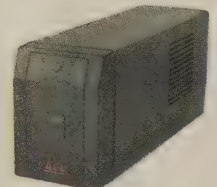
TL-OFFICE300

TL-OFFICE500
(Front and Rear View)TL-BCPR0600
(Front and Rear View)

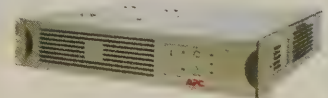
TL-SMART500RT1U



SU5000RT4U



APC-SC420



APC-SUA1000RM2U



APC-SUA2200RM2U



Same day shipping

Orders placed before 4:00 EST
ship the same day.



Media Converters Tutorial

What is a Media Converter?

A Media converter is used to extend copper UTP Ethernet cabling to distances beyond the 100 Meter maximum for UTP by converting the voice/video/data signals to fiber optic cabling.

How is a Media Converter used?

Media Converters have two types of ports; one for copper (UTP or STP) and one for fiber (usually duplex, but sometimes simplex). You simply plug in the fiber cable and the copper cable and power on the media converter. Some more advanced media converters are designed with features such as link loss carry forward and link loss return these are usually enabled by moving dip switches on the Media Converter.

Where are Media Converters used?

Media converters are used in environments where EMI/RFI is present such as manufacturing facilities. Other applications include campus networks where many buildings need to be connected via fiber. Also high rise buildings typically use a fiber backbone which is laid vertically and taps into copper (UTP) networks on each floor via a media converter.

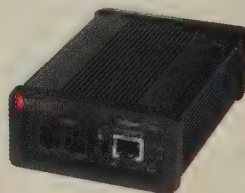
Distance Limitations of Copper and Fiber Optic Network Cabling Types:

Cable Type	Distance Limitation
Category 5/5E/6 UTP and STP cable	100 Meters Max.
Multimode Fiber Cable 62.5/125 u	2 Km Max.
Multimode Fiber Cable 50/125 u	2 Km Max.
Single mode Fiber Cable 9/125	15 Km Max. (Typical)

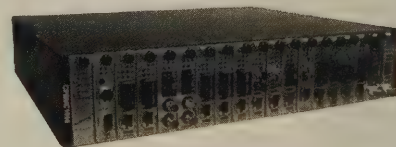
Note: Fiber cable distances are typical when used in an Ethernet Data network environment. Some Single mode fiber media converters can extend up to 100 Km. These devices use special high powered laser transceivers to achieve these distances.

Form Factors

There are two styles of media converters, standalone and chassis based. Standalone converters are typically used in locations where only one of two fiber links are needed. The chassis based options are often used in MDF or IDF locations where multiple fiber links are converted to UTP.



Standalone



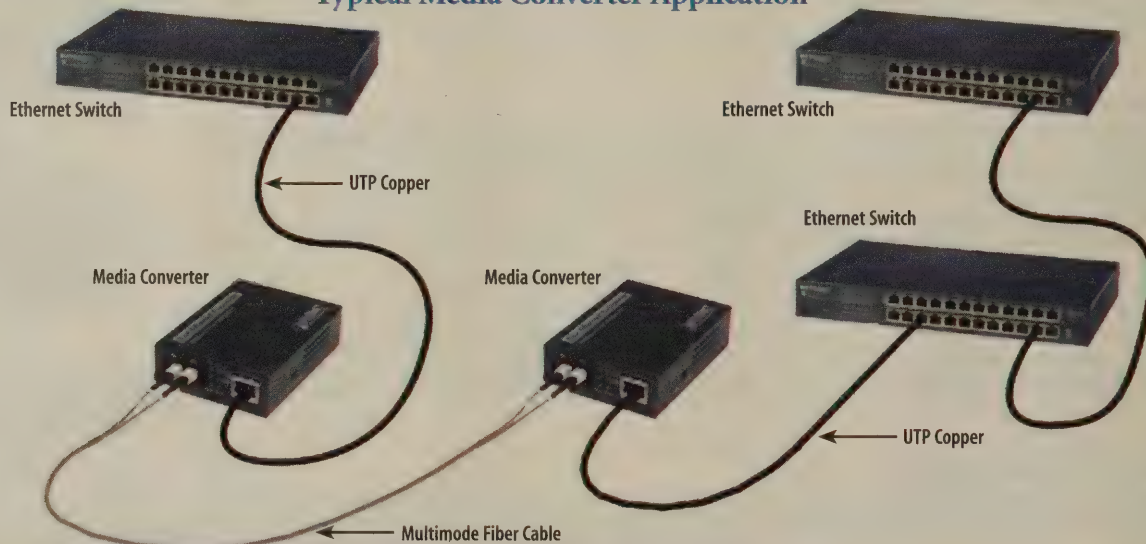
Chassis



For more useful information go to....

www.L-com.com/Resources

Typical Media Converter Application



Managed and Unmanaged

Unmanaged or "plug and play" media converters are easy to install and trouble shoot. The disadvantage with unmanaged converters is when a network issue is occurring, there is no way to access the media converter to see exactly what might be causing the issue. Many chassis based media converter solutions feature an option for an SNMP card that shows statistics and overall health of all the media converters in the chassis. This is helpful when you have multiple chassis filled with media converters in a large data center. Additionally there are some standalone converters on the market today that support SNMP management.

Item #	Description	Maximum Segment Length	List Price
Metrobility Radiance Series Converter Chassis - 1, 2 and 17 Slot Options			
LCR5000-17HS	17 Slot Radiance 19" Rack Mountable Chassis		479.00
LCACPS-17HS	AC Power Supply for the LCR5000 Chassis		109.00
LCDCPS-17HS	DC Power Supply for the LCR5000 Chassis		469.00
LCR1000-AAF	2 Slot Chassis with 2 Front Facing AC Power Supplies		539.00
LCR1000-DDF	2 Slot Chassis with 2 Front Facing DC Power Supplies		539.00
LCR200-AC	1 Slot Chassis with Single AC Power Supply		249.00
LCR200-DC	1 Slot Chassis with Single DC Power Supply		259.00

Metrobility Radiance SNMP Management Module

LCR502-M	SNMP Management Module for Radiance R5000 Chassis		489.00
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Gigabit Ethernet (1Gbps) "Twister" Modules for Radiance Series Chassis

LCR152-1A	1000Base-TX, RJ45 to 1000Base-SX, Multimode SC	100m/220m	489.00
LCR152-1D	1000Base-TX, RJ45 to 1000Base-LX, Single mode SC	100m/10km	689.00
LCR152-1F	1000Base-TX, RJ45 to 1000Base-LX, Single mode SC	100m/25km	1519.00
LCR152-AD	1000Base-SX, Multimode SC to 1000Base-LX, Single mode SC	220m/10km	829.00

100Mbps Fast Ethernet "Twister" Modules for Radiance Series Chassis

LCR231-13	100Base-TX, RJ45 to 100Base-FX, Multimode SC	100m/2km	489.00
LCR231-15	100Base-TX, RJ45 to 100Base-FX, Multimode ST	100m/2km	449.00
LCR231-14	100Base-TX, RJ45 to 100Base-FX, Single mode SC	100m/15km	689.00
LCR231-16	100Base-TX, RJ45 to 100Base-FX, Single mode ST	100m/15km	689.00
LCR231-17	100Base-TX, RJ45 to 100Base-FX, Single mode SC	100m/40km	829.00
LCR231-1J	100Base-TX, RJ45 to 100Base-FX, Single mode SC	100m/100km	2199.00

10/100Mbps Ethernet Intelligent AutoTwister Modules for Radiance Series Chassis

LCR621-11	10/100Base-TX, RJ45 to 10/100Base-TX, RJ45	100m/100m	310.00
LCR643-13	10/100Base-TX, RJ45 to 100Base-FX, Multimode SC	100m/2km	209.00
LCR643-15	10/100Base-TX, RJ45 to 100Base-FX, Multimode ST	100m/2km	259.00
LCR643-1K	10/100Base-TX, RJ45 to 100Base-FX, Multimode LC	100m/2km	309.00
LCR643-14	10/100Base-TX, RJ45 to 100Base-FX, Single mode SC	100m/15km	365.00
LCR643-17	10/100Base-TX, RJ45 to 100Base-FX, Single mode SC	100m/40km	399.00
LCR643-1J	10/100Base-TX, RJ45 to 100Base-FX, Single mode SC	100m/100km	1379.00
LCR643-1M	10/100Base-TX, RJ45 to 100Base-FX, Single mode LC	100m/15km	419.00

Gigabit Ethernet (1Gbps) Twister Stand-alone Media Converters

LC2152-1A	1000Base-TX, RJ45 to 1000Base-SX, Multimode SC	100m/220m	759.00
LC2152-1D	1000Base-TX, RJ45 to 1000Base-LX, Single mode SC	100m/10km	1179.00
LC2152-1F	1000Base-TX, RJ45 to 1000Base-LX, Single mode SC	100m/25km	1779.00
LC2152-AD	1000Base-SX, Multimode SC to 1000Base-LX, Single mode SC	220m/10km	1319.00

10/100Mbps Fast Ethernet Twister Stand-alone Media Converters

LC2643-13	10/100Base-TX, RJ45 to 100Base-FX, Multimode SC	100m/2km	249.00
LC2643-15	10/100Base-TX, RJ45 to 100Base-FX, Multimode ST	100m/2km	279.00
LC2643-1K	10/100Base-TX, RJ45 to 100Base-FX, Multimode LC	100m/2km	309.00
LC2643-14	10/100Base-TX, RJ45 to 100Base-FX, Single mode SC	100m/15km	379.00
LC2643-17	10/100Base-TX, RJ45 to 100Base-FX, Single mode SC	100m/40km	419.00
LC2643-1J	10/100Base-TX, RJ45 to 100Base-FX, Single mode SC	100m/100km	1419.00
LC2643-1M	10/100Base-TX, RJ45 to 100Base-FX, Single mode LC	100m/15km	419.00

Unicom 10Base-FL/10Base-T (Fiber/UTP) Converters - Dual ST and RJ45 Connections

These media converters conform with the IEEE 802.3 Ethernet fiber optic standard (10Base-FL). Dual Fiber ST connectors allow connection to 62.5/125 duplex multimode or single mode cabling and electro optic circuitry transforms the signal to a 10Base-T RJ45 port. Multimode fiber runs can extend up to 2km and single mode runs to 20km. Two position switch allows 10Base-T connection to a hub or a workstation and seven LEDs indicate network status at all times. Externally powered with 9V DC transformer included.

UTP20108	Miniature 10Base-FL/10Base-T Multimode Converter	169.00
UTP20108-SM	Miniature 10Base-FL/10Base-T Single mode Converter	400.00

Unicom 10Base-T/AUI Transceiver - RJ45 and DB15 Male Connections

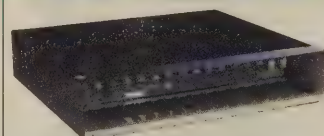
Use this transceiver to connect your existing thick Ethernet interface card to a 10Base-T UTP network. Converts signals from standard Ethernet transceiver cable to a suitable format for transmission over Unshielded Twisted Pair wires to a hub of your choice. Our mini 10Base-T transceiver does not require any external power. Includes a set switch for enabling or disabling the SQE function for applications that require the SQE test. The POWER/ TX, LINK/RCV and COLLISION/JABBER LED lights simplify troubleshooting and network maintenance.

UTP20028T	Miniature 10Base-T/AUI Transceiver	29.00
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Unicom 10Base-2/10Base-T Media Converter - RJ45 and BNC Connections

This 10Base-2/T converter is designed to connect your existing Thin Ethernet interface card or Thin Ethernet Network to a 10Base-T UTP network. The unit simply converts signals from Thin Ethernet to a suitable form for transmission over Unshielded Twisted Pair (UTP). It has a three position terminator switch (open, 25 Ohm, 50 Ohm) for varying applications. The POWER, LINK, TPPLR, TPRCV, TPCOL, CXCOL, CXRCV LED lights simplify troubleshooting and network maintenance. Supplied with 9V DC power adapter.

UTP20038T	Miniature 10Base-2/T Converter	69.00
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LCR5000-17HS



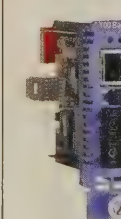
LCR1000-AAF



LCR502-M



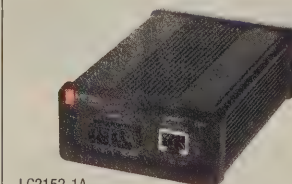
LCR152-AD



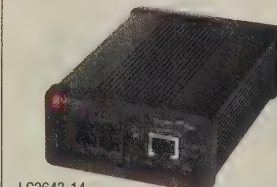
LCR231-13



LCR643-13



LC2152-1A

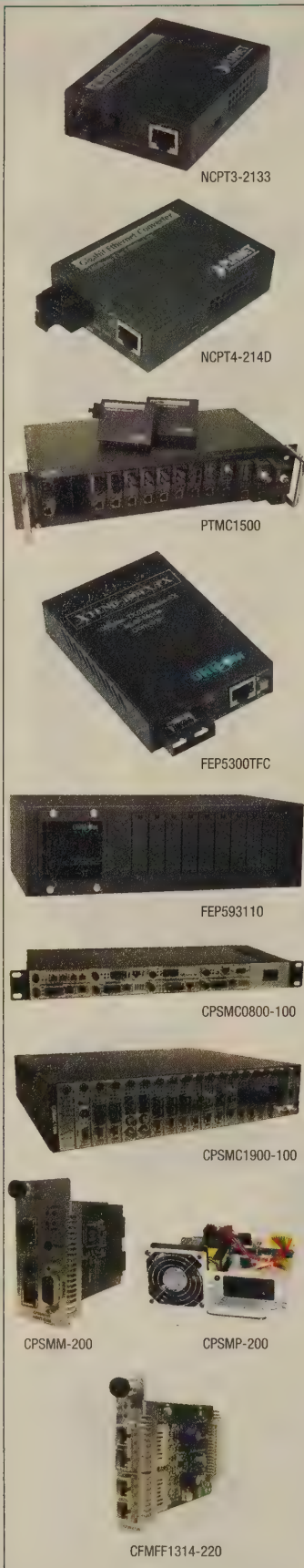


LC2643-14



UTP20108

"Your eNewsletter is always very topical. I like its brevity with a link to more info if needed. It's always informative and to the point. Keep up the good work. Thank you." - James K.



Item #	Description	Maximum Segment Length	List Price
✓RoHS Planet Economy Fast Ethernet and Gigabit Copper to Fiber Media Converters			
Planet's line of Fast Ethernet and Gigabit Ethernet Media Converters offer users a cost effective option to convert from fiber to copper in a network. The Planet converters make it easy to extend network segments up to 2km over multimode fiber optic cable and up to 15km over single mode fiber optic cable. Includes a 5VDC power supply.			
NCPT3-2133	Planet 10/100Mbps RJ45 to 100Mbps Multimode ST	100m/2km	79.00
NCPT3-2135	Planet 10/100Mbps RJ45 to 100Mbps Multimode MTRJ	100m/2km	129.00
NCPT3-2143	Planet 10/100Mbps RJ45 to 100Mbps Multimode SC	100m/2km	79.00
NCPT3-2184	Planet 10/100Mbps RJ45 to 100Mbps Single mode SC	100m/15km	129.00
NCPT4-2140	Planet 1000Mbps RJ45 to 1000Mbps Multimode SC	100m/550m	125.00
NCPT4-217E	Planet 1000Mbps RJ45 to 1000Mbps Multimode LC	100m/550m	179.00
NCPT4-21010	Planet 1000Mbps RJ45 to 1000Mbps Mini-GBIC, Multimode LC	100m/10km	69.00
MOD-MGBIC-SX	Planet 1000Base-SX Mini-GBIC Module	550m	69.00
MOD-MGBIC-LX	Planet 1000Base-LX Mini-GBIC Module	10km	139.00

✓RoHS Planet 15 Slot Media Converter Chassis

The PTMC1500 media converter chassis allows for connectivity of up to 15 Planet Ethernet/ Fast Ethernet and Gigabit Ethernet copper to fiber converters in one 19" rack mount chassis. Dual fans with accompanying LED indicators provide at a glance troubleshooting for system cooling. The chassis features power isolation for each of the 15 converters ensuring each bay is electrically isolated from each other. This power isolation feature ensures uninterrupted connectivity and seamless plug and play module installation.

PTMC1500	Planet 15 Slot Media Converter Chassis	239.00
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Unicom Ethernet Velocity™ Media Converters - For Stand-alone or Chassis Based Use

Unicom's FEP series media converters offer great flexibility as they can be used in standalone, desktop mode or they can be mounted in a chassis (sold separately). All units offer shielded steel enclosures and run off 5 VDC power supplies which are included. Multiple LEDs indicate status for easy troubleshooting.

FEP5300TFC	Unicom Velocity 10/100TX RJ45 to 100Base-FX Multimode SC	100m/2km	110.00
FEP5300TFT	Unicom Velocity 10/100TX RJ45 to 100Base-FX Multimode ST	100m/2km	110.00
FEP5400TFC	Unicom Velocity 10/100TX RJ45 to 100Base-FX Single mode SC	100m/15km	205.80
GEP-5300TF-C	Unicom Velocity 10/100/1000 to Multimode SC	100m/500m	283.25
GEP-5400TF-C	Unicom Velocity 10/100/1000 to Single mode SC	100m/10km	466.50

Unicom 10 Slot Velocity™ Media Converter Chassis

Unicom's Velocity™ Media-Chassis/10 accommodates up to 10 Gigabit and Fast Ethernet Velocity Series media converter modules in a single unit. The power supply system is integrated and provides power protection into each bay's supply. The chassis also offers extra protection by isolating each media converter bay from the power bus. The chassis includes two 19" rack-mounting brackets, one fan and one 110/220V power supply. This chassis can only be used with the Velocity Series media converters.

FEP593110	Unicom Velocity 10 Slot Media Converter Chassis	243.80
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Transition Networks Point System Chassis Solutions

Transition Networks offers one of the widest selections of media conversion chassis ranging from a dual slot all the way to a 19 slot solution. Additional optional accessories include redundant AC and DC power supplies, SNMP management modules, and fan modules. With this wide range of options, any configuration can be satisfied.

CPSMC0200-226	2 Slot Point System Chassis	269.00
CPSMC0800-100	8 Slot Point System Chassis (Internal AC Pwr Supply)	449.00
CPSMC1300-100	13 Slot Point System Chassis (Includes 1 Pwr Supply)	393.75
CPSMC1800-200	18 Slot Point System Chassis (Includes 1 Pwr Supply)	599.00
CPSMC1900-100	19 Slot Point System Chassis (Includes 1 Pwr Supply)	525.00
CPSMM-120	Single Slot Master Management Module	369.00
CPSMM-200	Dual Slot Master Management Module	489.00
CPSMP-120	Redundant 120/240V AC Power Supply (13 Slot Point System Chassis)	299.00
CPSMP-200	Redundant 120/240V AC Power Supply (18-19 Slot Point System Chassis)	379.00
CPSFM-200	Fan Module (18-19 Slot Point System Chassis)	149.00
CPSFP-200	Blank Face Plate	3.45

Transition Networks Point System Media Converter Modules

Transition Networks offers a wide array of Point System media conversion options. Styles include 10BaseT, 10BaseFL, 10/100TX, 100BaseFX and Gigabit media converters. Each media converter is equipped with system status LEDs for at-a-glance management. By adding a management module to the Point System chassis SNMP management of each module is achieved.

CETTF1011-105	Point System Media Converter 10Base-T to 10Base-FL ST MM	100m/2km	159.00
CETTF1013-105	Point System Media Converter 10Base-T to 10Base-FL SC MM	100m/2km	169.00
CETTF1012-105	Point System Media Converter 10Base-T to 10Base-FL ST SM	100m/20km	429.00
CETTF1014-105	Point System Media Converter 10Base-T to 10Base-FL SC SM	100m/20km	549.00
CFETF1011-105	Point System Media Converter 100Base-TX to 100Base-FX ST MM	100m/2km	269.00
CFETF1013-105	Point System Media Converter 100Base-TX to 100Base-FX SC MM	100m/2km	269.00
CFETF1014-105	Point System Media Converter 100Base-TX to 100Base-FX SC SM	100m/20km	549.00
CGETF1013-110	Point System Media Converter 1000Base-TX to 1000Base-SX SC MM	100m/2km	579.00
CGETF1014-110	Point System Media Converter 1000Base-TX to 1000Base-SX SC SM	100m/10km	969.00
CFMFF1313-220	Point System Media Converter 1000Base-SX to 1000Base-SX SC MM	100m/2km	1010.00
CFMFF1314-220	Point System Media Converter 1000Base-SX to 1000Base-LX SC SM	100m/10km	1130.00

Item #	Description	List Price
 Korenix JetCon Industrial Media Converter 1 10/100TX, 1 100FX SC		
The Korenix JetCon Series offers fiber to UTP conversion allowing extension of your network. These industrial rated media converters are perfect for use in electrically "noisy" environments where fiber must be used and then converted to UTP at some other location. IP-31 grade protection along with wide range operating temperature ensures these robust converters will stand the test of time.		
JETCON 1301-M	JetCon Industrial Media Converter 1 10/100TX, 1 100FX SC	180.00
 Korenix JetCon Industrial Media Converter 2 10/100TX, 1 100FX SC		
JetCon 1302-M is not only a compact 2-port RJ45 to fiber media converter, but also a slim 3-port switch which is an ideal design for networks with limited space. The fault relay alarm feature informs you whenever there is any port link down. Just move up the DIP switch and the fault relay alarm will be enabled! Multimode fiber optic ports meet your needs for long distance transmission up to 2KM.		
JETCON 1302-M	JetCon Industrial Media Converter 2 10/100TX, 1 100FX SC	195.00
 Korenix JetCon Industrial Media Converter 1 10/100/100TX, 1 SFP		
The JetCon 3401G, industrial Gigabit Ethernet media converter, is equipped with a rugged aluminum alloy case with IP-31 grade ingress protection against damage by solid objects or dust. With excellent heat dissipation characteristics, the JetCon 3401G is capable of performing better than ordinary Gigabit Ethernet media converters which are enclosed by steel metal with various heat dissipation holes. Unlike those with a single power input, the real time redundant power backup on JetCon 3401G leads to the functionality of a real Industrial Gigabit Ethernet Media Converter with the non-stop transmission.		
JETCON 3401G	JetCon Industrial Media Converter 1 10/100/100TX, 1 SFP	290.00

Hirschmann 100Mbps Ethernet 24 VDC DIN Rail Fiber/Copper Transceiver

These 100Mbps Fast Ethernet transceivers offer seamless transition from Category 5 shielded twisted pair cabling to fiber optic cabling allowing you to extend your industrial network beyond the 100 meter limitation of Cat5 cabling. Two models are available depending on the fiber media required, multimode to 3,000 meters or single mode to 40,000 meters. 24 VDC operating voltage is supplied over the terminal block and can also be configured for redundancy mounts to standard DIN Rail. 2 year manufacturer's warranty.

RT2-TX/FX	DIN Rail 100Base-TX/FX Transceiver, Multimode	579.30
RT2-TX/FX-SM	DIN Rail 100Base-TX/FX Transceiver, Single mode	1927.10

GarrettCom Industrial Ethernet 10/100Mbps Media Converters

The Magnum 14EH Series Copper to Fiber Media Ethernet Converters offer users the ability to convert copper Ethernet ports over to Fiber for high EMI/RFI noise environments and extended cable distances. The Magnum 14EH series feature a plenum rated, sealed metal case preventing dust and moisture penetration. The case acts as a heat sink so no internal airflow is required. With a temperature range of -40C to +75C, these converters are suitable for most non-controlled environments. The Magnum series converters also feature a Link Pass-Through feature allowing managed switches to "see through" the media converters for checking downstream cable connections. The converters can be DIN rail mounted with the addition of the optional bracket kit. AC powered and 48VDC options available upon request. The Magnum 14EH series includes a 3-year manufacturer's warranty. Power supply not included.

NCG2143-24	GarrettCom Industrial Converter, 100Mbps RJ45 to Multimode SC	400.00
NCG2133-24	GarrettCom Industrial Converter, 100Mbps RJ45 to Multimode ST	400.00
NCG2184-24	GarrettCom Industrial Converter, 100Mbps RJ45 to Single mode SC	700.00
NCG2194-24	GarrettCom Industrial Converter, 100Mbps RJ45 to Single mode ST	700.00
NCG-DIN-KIT	GarrettCom DIN Rail Mounting Kit for NCG21 Series Converters	30.00

GarrettCom CS14H Ethernet Media Converter Switches

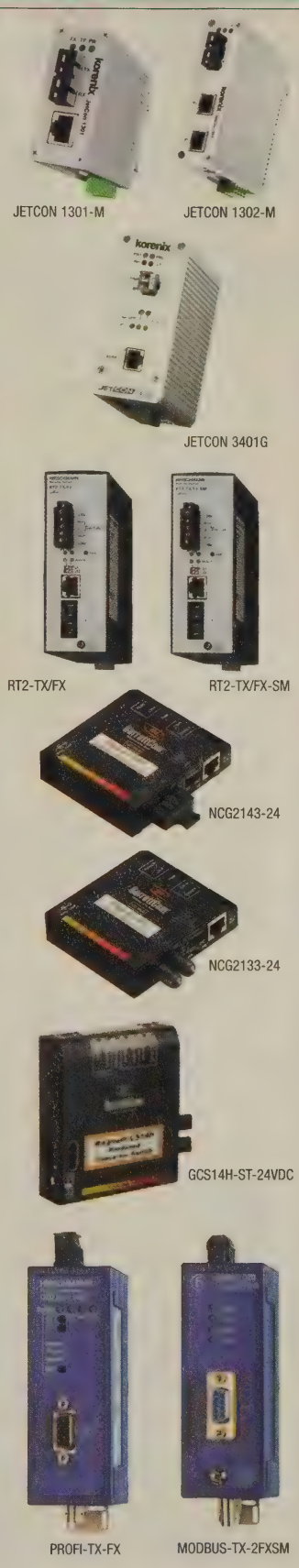
Combine a 100 Mb Ethernet Fiber Media Converter and a two-port 10/100 copper Ethernet switch and you have a cutting edge converter switch and flexible Ethernet connectivity product. The Magnum CS14H Hardened units are for factory floor applications. The CS14H models are built with high-grade components and are constructed using special thermal techniques (patent pending) and a metal case for heavy-duty industrial jobs. In addition to a Hardened AC power option and jack, terminals for internal DC power choices at 8 to 15V, 24V or -48V DC are included. No internal airflow is required for cooling, so units resist dust, dirt, moisture, smoke and insects. Mounting options include stand-alone panel mounting, DIN Rail, or rackmount tray.

GCS14H-SC-24VDC	GarrettCom CS14H Hardened Converter/Switch, 2-10/100 1-100FX Multimode SC	280.00
GCS14H-ST-24VDC	GarrettCom CS14H Hardened Converter/Switch, 2-10/100 1-100FX Multimode ST	280.00
GCS14H-SSC-24V	GarrettCom CS14H Hardened Converter/Switch, 2-10/100 1-100FX Single mode SC	580.00

Hirschmann PROFIBUS, MODBUS and GENIUSBUS Fiber to Copper DIN Rail Media Converters

Hirschmann's PROFIBUS, MODBUS and GENIUSBUS media converters are perfect for transmitting data over several miles/kilometers. They connect terminal devices such as computers, image-processing devices, programmable logic controllers (PLCs) and peripheral devices together. With their high availability and redundancy, they are able to hold their own in the harsh world of industrial applications. Fiber optic cables can be laid directly on high-power equipment or parallel to power cables, reducing planning and commissioning costs. Each converter in this series can be mounted on a DIN rail and is powered by an external 24VDC power supply.

PROFI-TX-FX	PROFIBUS Media Converter DB9F to BFOC Multimode	569.70
PROFI-TX-2FX	PROFIBUS Media Converter DB9F to 2 BFOC Multimode	646.00
PROFI-TX-FX-SM	PROFIBUS Media Converter DB9F to BFOC Single mode	1634.60
PROFI-TX-2FX-SM	PROFIBUS Media Converter DB9F to 2 BFOC Single mode	2132.50
MODBUS-TX-2FX	MODBUS Media Converter DB9F to 2 BFOC Multimode	831.60
MODBUS-TX-2FXSM	MODBUS Media Converter DB9F to 2 BFOC Single mode	2093.40
GENIUSBUS-TX-2FX	GENIUSBUS Media Converter 4-Pin Terminal to 2 BFOC Multimode	1088.70
GENIUSBUS-TX-2FXSM	GENIUSBUS Media Converter 4-Pin Terminal to 2 BFOC Single mode	2038.80



Need help configuring a media converter chassis?
See the free tip and more at L-com.com/Chassis



Ethernet Switches Tutorial

What is an Ethernet Switch?

An Ethernet switch is a device used to connect multiple PCs, Servers, Laptops or other Ethernet IP enabled devices such as IP cameras to a Local Area Network (LAN). Most switches feature 10/100 Mega bit per second RJ45 ports although many newer switch designs now offer 10/100/1000 triple speed ports that provide up to 1 Gigabit per second access. The switch uses a MAC address table to keep track of where PCs, servers or other connected devices are located. Each device has a unique MAC (Media Access Control) address "burned" into the hardware. For example; if a PC on port one needs to "talk" to a file server, the switch will look at its MAC address table and determine which port the file server is located on and send the PCs data to that port. This relieves network congestion. The older Hub technology used a shared communication method where all requests were sent to all ports of the hub causing latency.

How is an Ethernet Switch used?

Ethernet switches typically utilize RJ45 ports for UTP or STP connectivity to PCs, Servers, Routers etc. Many switches also feature high speed uplink ports where modules can be purchased to connect fiber optic or UTP cabling supporting speeds of 1 Gigabit per second or more. Cables are used to plug into the ports on the switch and then into the Ethernet device (PC, router etc.) on the other end.

Where are Ethernet Switches used?

Ethernet switches are utilized everywhere from Small Office/Home Office (SOHO) environments to major ISPs (Internet Service Providers) to military installations. Ethernet switches are used for both industrial and commercial applications.



For more useful information go to....
www.L-com.com/Resources

Managed and Unmanaged

Unmanaged Ethernet switches, typically referred to as "plug and play" are easy to install but do not provide port level statics, management and control that are often required in larger networks where many switches are installed. Managed switches typically feature an SNMP agent that allows port level control and statistics such as collisions, packets in, packet out etc. Some Managed switches also feature filters where only certain device, PCs etc are allow to communicate on a certain port of the switch. By using managed switches a network administrator can see if a port may be malfunctioning and sending bad packet onto the network and shut that port off so the whole network does not go down.

Industrial Ethernet Switches

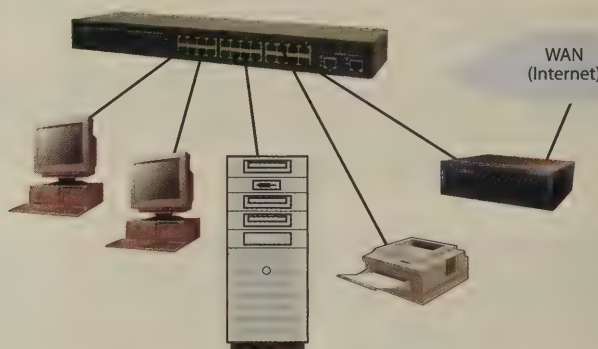
There is a class of Ethernet Switches referred to as Industrial Ethernet switches which are designed to work in harsh environments where extreme temperatures, vibration, dust and moisture are present. These Industrial rated switches generally have no moving parts such as fans and utilize components that are designed for extreme temperatures etc. In very moist environments or areas where condensation is present a conformal coating is sometimes used to cover the entire PCB to protect the components. Typical installations for Industrial Ethernet switches include manufacturing facilities, mining, oil production, power plants, waste water treatment plants and any other application where environmental extremes exist.

What is Ethernet?

In the early 1980s, Digital Equipment Corporation, Intel, and Xerox developed the Ethernet Local Area Networking format. This technology was soon accepted by the IEEE Committee, creating the 802.3 standard. This standard dictates the use of CSMA/CD (Carrier Sense Multiple Access with Collision Detection) as its accessing scheme. Local Area Networks (LANs) use a variety of NICs (Network Interface Cards), hubs, transceivers, converters, repeaters & switches, as well as different types of transmission media (copper and fiber) for carrying signals.

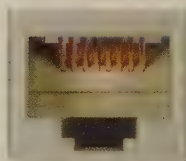
Accessing Scheme:	CSMA/CD - Carrier sense multiple access with Collision Detection.
Speed:	10 Mbps/100 Mbps/1000 Mbps (1 Gbps).
Network Architecture:	Bus, Star, Ring, Hybrid

The diagram below shows a typical Ethernet Switch application

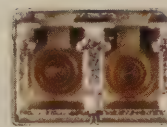


In the diagram above you can see that Ethernet switches are used for sharing resources such as printers, networked file servers and router connection to the Internet or Wide Area Network (WAN).

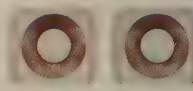
Connectors Commonly Used in Ethernet Environments



10BASE-T
100BASE-T
1000BASE-T
RJ45 JACK



100FX
1000BASE-X
Dual Fiber LC
PLUG



10BASE-FL
100BASE-FX
1000BASE-X
Dual Fiber SC
PLUG



Item #	Description	List Price
SwitchMaster® R1000, Network Backup RJ45 A/B Switch		
SwitchMaster® R1000 A/B Network Switches are physical layer hardware devices that enable workstations or backbone connections to switch between network resources. Ideal for disaster recovery and network access control applications, SwitchMaster® R1000 switches can support RJ45 10/100 Ethernet connections. Standard configurations include 8 or 16 copper RJ45 all in a 1U rack mount enclosure. User control of the SwitchMaster® is simple and can be established from anywhere in the world. Each unit is equipped with a front panel toggle switch that enables the user to gang switch all ports locally or independently control each port via the serial console port. Optional configurations include an Ethernet port enabling the user to control the unit anywhere in the world via an IP connection. All units incorporate proprietary latching relay technology. This failsafe technology maintains the connection patch even when power fails or has been removed. Custom configurations including fiber optic connections are also available. Contact L-com sales with your specific requirements.		
5101020	SwitchMaster® R1000, NBS 8 Port, RJ45 A/B Switch	695.00
5101021	SwitchMaster® R1000, NBS, 16 Port, RJ45 A/B Switch	879.00
5101022	SwitchMaster® R1000, NBS, 8 Port, RJ45 A/B Switch with SNMP	879.00
5101023	SwitchMaster® R1000, NBS, 16 Port, RJ45 A/B Switch with SNMP	1095.00

SwitchMaster® R5000 Series Rack Chassis

SwitchMaster® R5000 A/B Network Switches are a physical layer hardware based solution supporting a variety of switching and network access control applications all in a compact chassis. Each chassis is capable of supporting up to 16 A/B switching modules and can be cascaded to build a system of up to 255 switched ports. Choose from a variety of off-the-shelf switching modules including Cat6, Fiber Optic, Video F-Connector and DB25 connections which can be mixed or matched in the same chassis. Failsafe operation is achieved by incorporating latching relay or micro mirror technology into the switching modules so data can continue to pass through the system even when power fails or has been removed. User control of the R5000 is simple, quick and flexible and can be established from anywhere in the world by choosing one of our controller modules for each chassis.

5000722	SwitchMaster® R5000 Series Rack Chassis	349.00
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SwitchMaster® R5000 Series Controller and Switch Cards - DB25, SC or Category 6

5100740	SwitchMaster® R5000, Single Slot Power Supply Card, w/Ext Power Supply	345.00
5000764	SwitchMaster® R5000, Controller Card RS232	370.00
5000765	SwitchMaster® R5000, Controller Card RS232 and SNMP	814.00
5000730	SwitchMaster® R5000 Series DB25 A/B Switch Card	199.00
5000772	SwitchMaster® R5000 Series SC Fiber Optic A/B Switch Card	899.00
5000782	SwitchMaster® R5000 Series Cat6, RJ45 A/B Switch Card	279.00
6000795	SwitchMaster® R5000, Video F-Connector A/B Switch Card	199.00
5000766	SwitchMaster® R5000, Blank Panel (1 Slot)	10.00

SecureSwitch® SC Fiber Optic A/B/C Switch Revion A Desktop or Rack Mount (EAL4+)

SecureSwitch® is an all optical switch that connects up to three different classified networks to a full-duplex common device. All optical switching is accomplished by using a proprietary mirrored switching mechanism that has been designed to provide a minimum of 75 db of isolation among all ports. Since there is no optical to electrical conversion, SecureSwitch® is completely transparent to optical signaling rates and protocols. A specialized latching control circuit insures data integrity through the device even when power fails or has been removed. Switching control between ports is fast and simple by selecting one of the three front panel switches. Front panel LED's provide a quick visual indication of the selected connection. SecureSwitch® supports standard duplex ST or SC connectors and is available with a desktop enclosure or 1U rack mount chassis.

5101180	SecureSwitch® SC Fiber A/B/C Switch Rev A Desktop (EAL4+)	3899.00
5101183	SecureSwitch® SC Fiber A/B/C Switch Rev A Rack Mount (EAL4+)	3990.00

RoHS L-com Category 6 A/B Network Switches

L-com's Category 6 A/B Network Switches are physical layer hardware solutions which support a variety of switching, access and control applications, all in a compact desktop enclosure. These switch boxes feature a unique relay technology that supports the switching mechanism. Non-latching or latching relay configurations are available. The non-latching units provide automatic fail-over to the default Port A to C connection state when power fails or is removed. Latching relays provide the benefit of maintaining the flow of data between the selected connection even when power is removed. Additionally, all units incorporate a proprietary physical interface that enables these switch boxes to meet or exceed the stringent requirements of the Category 6 specification. This allows them to pass 10/100/1,000/10,000Mbps Ethernet. **Note:** The Ethernet Control models may be controlled via telnet, web browser or SNMP. Custom configurations are available.

6100900	L-com CAT6 A/B Network Switch - Latching	379.81
6100901	L-com CAT6 A/B Network Switch - Non Latching	370.19
6100902	L-com CAT6 A/B Network Switch with Serial Control - Latching	408.65
6100903	L-com CAT6 A/B Network Switch with Serial Control - Non Latching	399.04
6100904	L-com CAT6 A/B Network Switch with IP Ethernet Control - Latching	527.88
6100905	L-com CAT6 A/B Network Switch with IP Ethernet Control - Non Latching	518.27


Tip

Why Layer 1 Switching?

- Speed 10/100/1,000/10,000 Mbps - Our solutions support Category 6 and fiber optic connectivity. This means that we support today's standards and tomorrow's needs. (This is exclusive whereby no one in the market is able to do what we do).
- Future proof investment - today's standards and tomorrow's networks.
- Green solutions - use very little power.
- Secure solutions - all of these products are layer-1 hardware...they cannot be hacked like software.



5101021

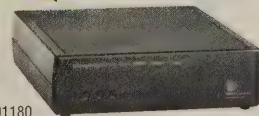
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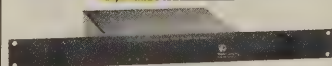
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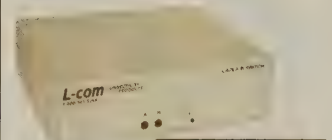
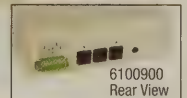
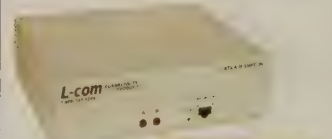
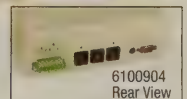
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Best Seller


5101180

New


5101183

6100900
Front View6100900
Rear View6100904
Front View6100904
Rear View

Latest new products

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L-com Global Connectivity



Item #	Description	List Price
✓RoHS Planet 5 and 8 Port 10/100 Ethernet Switches		
Planet Economy Ethernet switches offer a cost effective way to set up a small network at home or in the office. The 5 and 8 Port switches are compact and easy to install. These switches feature 10/100Mb auto-negotiation, 1K MAC address table, and store and forward switching architecture ensuring optimum performance. Includes a 12VDC power supply.		
SWTC-SW502	Planet 5 Port 10/100Mbps Fast Ethernet Switch	16.00
SWTC-SW802	Planet 8 Port 10/100Mbps Fast Ethernet Switch	20.00
✓RoHS Planet 8 Port 10/100Mbps 1 Port 100FX Fast Ethernet Switches		
The Planet SWTC-PT801X Series Ethernet switches are a versatile and economical way to connect 8 10/100 RJ45 Copper ports to a fiber backbone or network via the built in fiber port. These switches are also rack mountable using optional 10-inch and 19-inch rack mount kits, PT-RKE-10A and PT-RKE-10B (sold separately). These versatile switches feature automatic speed and duplex mode sensing, filtering/forwarding rates of 148,800pps for 100Mbps, 14,880pps for 10Mbps, IEEE 802.3x full duplex flow control, half-duplex back-pressure and MDI/MDIX auto-detection.		
SWTC-PT801SC	Planet 8 Port 10/100Mbps - 1 Port 100FX MM SC Ethernet Switch	115.00
SWTC-PT801ST	Planet 8 Port 10/100Mbps - 1 Port 100FX MM ST Ethernet Switch	115.00
SWTC-PT801S15	Planet 8 Port 10/100Mbps - 1 Port 100FX SM SC Ethernet Switch	129.00
PT-RKE-10A	Planet 10" Rack Mount Ears	5.00
PT-RKE-10B	Planet 19" Rack Mount Ears	7.50
✓RoHS Planet 16 Port 10/100Mbps Fast Ethernet Switch		
The SWTC-PT1601 features 16 10/100Base TX ports that support auto-negotiation, half and full duplex operation as well as built in MDI/MDIX auto-detection for easy, plug and play connections. The high performance store and forward filtering and switching function ensures corrupt packets are not propagated through the network.		
SWTC-PT1601	Planet 16 Port 10/100Mbps Fast Ethernet Switch	59.00
✓RoHS Planet 24 Port 10/100Mbps Fast Ethernet Switch		
The SWTC-PT2401 is the perfect high density switching solution for today's high performance Ethernet networks. The switch features 24 10/100Base-TX ports that support half and full duplex operation as well as auto-negotiation. High performance throughput (filtering/forwarding rate: 14,880 packets per second at 10Mbps, 148,800pps at 100Mbps) and dynamic shared memory buffer, enables the SWTC-PT2401 to boost bandwidth, eliminate unnecessary traffic and relieve network congestion.		
SWTC-PT2401	Planet 24 Port 10/100Mbps Fast Ethernet Switch	79.00
✓RoHS Planet 24 Port 10/100Mbps - 2 Port 10/100/1000 Gigabit Ethernet Switch		
The Planet SWTC-PT2620 26 port Fast Ethernet and Gigabit Ethernet switch provides 24 Fast Ethernet Switch ports and two Gigabit Ethernet 10/100/1000 switch ports. Each Fast Ethernet port supports 10/100Mbps and the two Gigabit Ethernet ports support 10/100/1000Mbps as well as Half/Full Duplex mode. With its 8.8Gbps non-blocking switch fabric, 8K MAC Address table, and 802.3x full-duplex flow control support, the SWTC-PT2620 offers wire-speed packet transfer performance without the risk of packet loss. MDI/MDIX auto detection is provided for direct wire connection to any Ethernet device including switches, hubs, or workstations without requiring a crossover cable. By viewing the front panel LED indicators, users can easily monitor network connection status.		
SWTC-PT2620	Planet 24 Port 10/100Mbps Plus 2 Gig Port Ethernet Switch	139.00
✓RoHS Planet 1000Base-SX/LX Mini-GBIC Modules		
The MOD-MGBIC-SX and MOD-MGBIC-LX provide flexible, high speed Gigabit access to the SWTC-PT2400 triple speed Gigabit Ethernet switch. These small form factor GBICs support either multimode or single mode fiber cabling with a maximum distance of 10km (MOD-MGBIC-LX). These two Mini-GBIC interfaces are ideal for adding an uplink to a server or network backbone.		
MOD-MGBIC-SX	Planet 1000Base-SX Mini-GBIC Module, 550m	69.00
MOD-MGBIC-LX	Planet 1000Base-LX Mini-GBIC Module, 10km	139.00
✓RoHS Planet 10/100/1000Mbps Gigabit Ethernet Switch		
The Planet five and eight port Gigabit Ethernet switches deliver cost effective, versatile high speed IP data connectivity to the desktop or data closet. These switches feature a compact footprint as well as a non-blocking switching architecture that guarantees wire-speed packet transfer. The RJ45 copper interfaces support 10/100/1000Mbps auto-negotiation for optimal speed detection through RJ45 Category 6, 5 or 5e cables. MDI/MDIX auto detection is provided for direct wire connection to any Ethernet device without requiring crossover cables. The switches also feature 802.3x, full duplex flow control.		
SWTC-PTG503	Planet 5 Port 10/100/1000Mbps Gigabit Ethernet Switch	89.00
SWTC-PTG803	Planet 8 Port 10/100/1000Mbps Gigabit Ethernet Switch	99.00
✓RoHS Planet 48 Port 10/100 Fast Ethernet Switch		
The Planet 48 port 10/100Base-TX Fast Ethernet Switch provides an economical and high performance Ethernet switching solution. With increasing bandwidth requirements for local area networks, Planet's SWTC-PT4800 Fast Ethernet Switch is the ideal option to alleviate bottlenecks in client / server and peer-to-peer environments in a cost-effective way. This Switch provides a combination of 48 Fast Ethernet switching ports providing users with high-speed network connections. With its Auto-Negotiation capability, all the RJ45/STP ports can be configured to speeds of 10/20Mbps or 100/200Mbps automatically. In addition, this switch is equipped with the MDI/MDIX auto-detection for easily plug and play connections, regardless of cabling types. Both straight through and crossover cables are supported. The high-performance throughput at filtering/forwarding rate is up to 14,880 packets per second in 10Mbps, and 148,800pps in 100Mbps. Along with its dynamic shared memory buffer, the SWTC-PT4800 can boost bandwidth, eliminate unnecessary traffic and relieve congestion on your critical server path.		
SWTC-PT4800	Planet 48 Port 10/100 Fast Ethernet Switch	225.00

Item #	Description	List Price
RoHS Hirschmann OpenRail RS20/RS30 Managed 24V DC Industrial Ethernet Switches		
Hirschmann's new OpenRail line of managed industrial Ethernet switches takes advantage of evolving technologies by providing greater functionality and lower cost. These managed switches are an update to the RS2/Rail switches. The Rail family (RS20 & RS30) includes more port options with 4, 8, 16 or 24 Fast Ethernet ports and the option of two Gigabit Ethernet ports (RS30). These switches are available with a choice of "enhanced" or "professional" firmware. Users can decide which functionality their application requires and select the appropriate firmware option without having to pay for features they do not need. Features like IGMP Snooping and HIPER Ring are available in all OpenRail switches. These robust switches also feature a USB port for backing up and restoring the configuration using an Auto-Configuration Adapter or USB drive.		
RS20800T1T1SDAE	OpenRail Switch 8 10/100TX	1209.00
RS21600T1T1SDAE	OpenRail Switch 16 10/100TX	2028.00
RS20800M4M4SDAE	OpenRail Switch 6 10/100TX 2 Multimode ST	1605.90
RS20800M2M2SDAE	OpenRail Switch 6 10/100TX 2 Multimode SC	1365.00
RS20800S2S2SDAE	OpenRail Switch 6 10/100TX 2 Single mode SC	1781.00
RS308020606SDAE	OpenRail Switch 8 10/100TX 2 Gig SFP	1625.00
RS32402T1T1SDAE	OpenRail Switch 24 10/100TX 2 10/100/1000TX	3029.00
M-SFP-SX/LC	SFP 1000BASE-SX LC 550m	195.00
M-SFP-LX/LC	SFP 1000BASE-LX LC 20km	351.00
M-SFP-LH/LC	SFP 1000BASE-LX LC 70km	1950.00
M-SFP-LH+/LC	SFP 1000BASE-LX LC 120km	3900.00

RoHS Hirschmann (MICE) Managed Modular 8 Port Ethernet / Fast Ethernet Rail Switch

Hirschmann Modular Industrial Communication Equipment (MICE) Ethernet/Fast Ethernet switches offer a unique combination of network management tools, redundancy features for high availability and modular media plug-ins for versatility. The compact switches are DIN Rail mountable, with redundant 24-volt power supplies and are compatible with 10BASE-T, 10BASE-FL, 100BASE-TX and 100BASE-FX. The switches will accommodate twisted pair, single mode or multimode fiber optic connections. MICE switches are made up of an integrated backplane and a modular dock that accepts the various media modules. The switches support SNMP management, web-based management, port mirroring, port security, remote monitoring (RMON), bootstrap protocol (BootP), Dynamic Host Configuration Protocol (DHCP) and Hirschmann's unique HIPER Ring. Hirschmann's HIPER Ring provides high availability through self-healing ring redundancy. The switches' rugged construction meets all standards for industrial Ethernet, making them suitable for applications where EMI interference, shock, vibration and temperature might otherwise cause concern.

MS20-0800SAAE	MICE Backplane 2 Slots	975.00
MS20-1600SAAE	MICE Backplane 4 Slots	1794.00
MS30-1602SAAE	MiCE Backplane 4 10/100 Slots 1 Gig Slot	2249.00
MB-2T	2 Slot Expansion Backplane for MS3124-4	168.13
MM2-4TX1	4 10/100Mbps RJ45 Ports	325.00
MM2-4FXM3	4 100Mbps Multimode MT-RJ Ports	1118.00
MM2-2FXM2	2 100Mbps Multimode SC Ports	598.00
MM2-2FXS2	2 100Mbps Single mode SC Ports	1248.00
MM2-2FXM3/2TX1	2 10/100Mbps RJ45s plus 2 100Mbps Multimode MT-RJ Ports	721.93



RS20800T1T1SDAE

RS21600T1T1SDAE



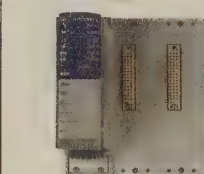
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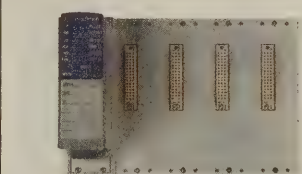
RS20800M2M2SDAE



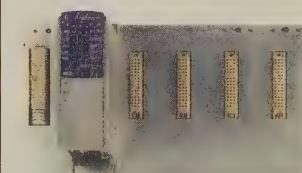
M-SFP-LX/LC



MS20-0800SAAE



MS20-1600SAAE



MS20-1602SAAE



MM2-4TX1

MM2-4FXM3

MM2-2FXM2



MM2-2FXS2

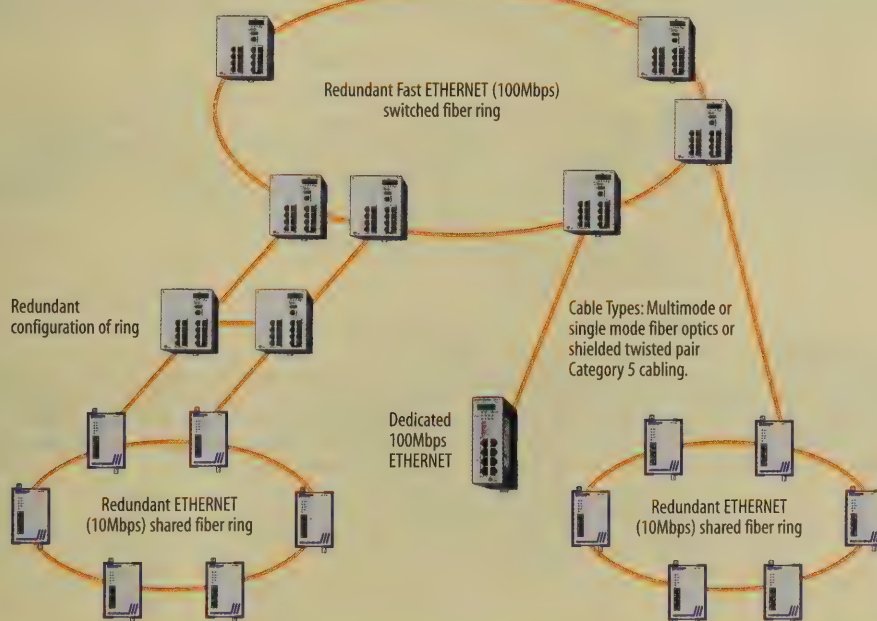
MM2-2FXM3/2TX1

Ethernet Communications on the Plant Floor

The movement to utilize Ethernet connectivity standards on the plant floor is heavily underway. Suppliers of remote I/O devices are quickly changing from traditional RS485 ports to 10 or 100Mbps Ethernet ports. PLCs (Programmable Logic Controllers) are now equipped with Ethernet ports as standard equipment.

Industrial Railmounted Ethernet equipment is fairly new to the networking community. These products are designed and built to a higher standard acceptable to manufacturing environments. The German made Hirschmann line is rapidly setting the pace for Ethernet in the industrial workplace. L-com is proud to be one of the few National Distributors chosen in the United States to support the Hirschmann line.

Cable Types: Multimode or single mode fiber optics.



We want to help you!

See a complete list of free tips, tutorials and videos at L-com.com/Tips

L-com Global Connectivity



Item #	Description	List Price
Hirschmann 100Mbps 24 VDC 8 Port DIN Rail Auto-negotiating Switch (8 Shielded RJ45 Ports)		
The RS2-TX Rail switch provides a fast, easy and cost-effective solution for configuring small Fast Ethernet networks. Features eight auto-negotiating twisted pair ports with shielded RJ45 connectors. The 24V operating voltage is supplied via a plug-in terminal block which can be configured for redundancy. Integrated LEDs display device and network status for fast on-site troubleshooting.		
RS2-TX	DIN Rail 10/100Base-TX Switch	420.33

Hirschmann Eagle Series Industrial Firewall System

The Hirschmann Eagle series security firewalls provide secure access to and from your Ethernet network. These IP Routers feature one trusted port and one untrusted port to control user access to critical network services such as servers and PC's. Security features include NAT, PPoE, PPTP, APR limiter, MAC filtering and Kaspersky anti virus engine. These routers are powered by an external 24V DC power supply (sold separately) and are IP20 rated for harsh environments.

EAGLE-1TX-1TX	Eagle Firewall System 1 RJ45 Trusted, 1 RJ45 Untrusted	1157.00
EAGLE-1TX-1FX	Eagle Firewall System 1 SC MM Trusted, 1 RJ45 Untrusted	1365.00

Hirschmann Industrial Compact Ethernet Rail Switches

Hirschmann Industrial Compact Switches provide the industrial customer with a cost effective way to add Ethernet connectivity on the factory floor. These switches auto-negotiate between equipment with 10Mbps or 100Mbps connections. The Hirschmann Industrial line features rugged metal enclosures and DIN Rail mounting. The switches also feature redundant 24VDC inputs and an open relay contact to facilitate connection to PLCs, allowing reaction to malfunction or process control alarms. The FX switches feature the extended range of fiber optic cabling via an integrated multimode fiber optic port. The fiber port can be used to create a fiber optic backbone to a central control room.

RS2-5TX	Hirschmann Industrial Switch 10/100Mbps 5-Port RJ45	339.73
RS2-5TX/FX	Hirschmann Industrial Switch 10/100Mbps 4 RJ45s + 1 Multimode MT-RJ	444.60

RoHS Hirschmann Unmanaged SPIDER 10/100 Ethernet Rail Switches

The Hirschmann SPIDER unmanaged Industrial Ethernet Rail Switches are the perfect small form factor solution for your Industrial Ethernet connectivity needs. Each switch features store and forward operation which stops corrupt packets from entering your network and five RJ45 10/100Base-TX Ethernet (10 Mbit/s) and Fast-Ethernet (100 Mbit/s) Ports, which support auto-crossing, auto-negotiation, and auto-polarity. The SPIDER family utilizes a 24V DC Power source (sold separately) and is DIN rail mountable.

SWTC-SPIDER3TX	Hirschmann Unmanaged SPIDER 3 Port 10/100 Ethernet Rail Switch	123.93
SWTC-SPDR4TX1FX	Hirschmann Unmanaged SPIDER 4 Port 10/100 1 Port 100FX Ethernet Rail Switch	247.00
SWTC-SPIDER5TX	Hirschmann Unmanaged SPIDER 5 Port 10/100 Ethernet Rail Switch	130.00

Hirschmann 10Mbps 24 VDC 4 Port DIN Rail Hub (4 Shielded RJ45 Ports)

The Rail Hub RH1-TP is the perfect choice and cost-effective expansion of industrial networks. This unit has four twisted pair ports and can be easily fixed on a standard DIN Rail without any further configuration. The 24 VDC operating voltage is supplied through the terminal block and can also be configured for redundancy. Built-in LEDs indicate collisions, link status, power failure and data receipt for on-site diagnostics.

RH1-TP	4 Port DIN Rail Hub (4 10Base-T Ports)	305.93
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Hirschmann 10Mbps 4 Port BNC, Fiber ST, RJ45 24 VDC DIN Rail Hub

The RH1-CX+ four port, 10Mbps Ethernet rail hub is the perfect choice for cost-effective expansion of industrial networks. This unit has one 10Base 2 BNC Coax port, one 10Base FL Duplex ST Multimode port and two 10Base T RJ45 ports. The unit can be easily mounted on a standard DIN Rail and features 24 VDC operating voltage which is supplied through the terminal block and can also be configured for redundancy. Built-in LEDs indicate collisions, link status, power failure and data receipt for on-site diagnostics.

RH1-CX+	Hirschmann 10Mbps 4 Port BNC, Fiber ST, RJ45 24 VDC DIN Rail Hub	617.93
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Hirschmann 24 VDC DIN Rail Power Supply

The RPS30, RPS60 and RPS120 24V DC power supplies are used when access to 24 VDC power at your DIN rail is not present. The RPS Series supports versatile, selectable input voltage ranging from 100-120/220-240 VAC. Additionally, these power supplies feature easy to reach front mounted connection blocks and high short-circuit current, giving the devices a large 'start-up window' meaning the units start reliably even with awkward loads experienced with DC-DC converters, motors etc.

RPS30	24 VDC DIN Rail Power Supply, 1.3A	117.00
RPS80-EEC	24 VDC DIN Rail Power Supply, 3.4A	188.93
RPS120-EEC	24 VDC DIN Rail Power Supply, 5A	398.67

Hirschmann Industrial HiVision Network Management Software

The Operator Edition of Hirschmann's HiVision Network Management software enables users to see the status of the network at a single glance. This intelligent program provides a display of the network with its hierarchical structure and topology for the devices of any given manufacturer. HiVision enables secure and easy configuration as well as the monitoring of industrial network components in real time. Features include device state, link and connection state (cable break, utilization), power supply and fan state, ICMP (Ping) and SNMP availability. Protocol support includes HiDiscovery, ICMP(Ping), SNMPv1, SNMPv2c, SNMPv3. Can be used with Windows 2000 / XP Linux (from kernel 2.2, glibc 2.0).

HIVIS OE 50	Industrial HiVision - Operator Edition, 50 Nodes	899.17
HIVIS OE 100	Industrial HiVision - Operator Edition, 100 Nodes	1285.56
HIVIS OE 250	Industrial HiVision - Operator Edition, 250 Nodes	2057.43
HIVIS OE 500	Industrial HiVision - Operator Edition, 500 Nodes	2957.50

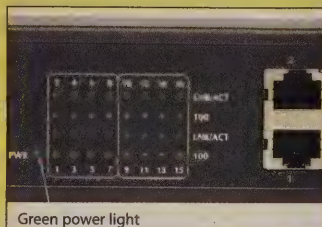


How auto-negotiation works

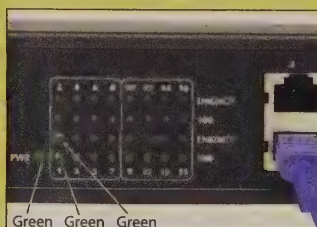
IEEE 802.3 NWay Auto-negotiation is a data communications protocol used with Ethernet switches, routers and media converters. The NWay protocol was developed so Ethernet devices, which support multiple transmission speeds such as a 10/100, can operate more efficiently. This protocol automatically selects the highest possible common transmission speed between two Ethernet switches, routers or media converters and automatically sets that speed on the port.

Benefits of using NWay Auto negotiation (also referred to as auto-sensing or auto-negotiation) include:

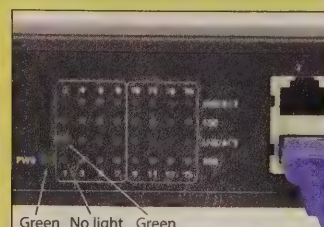
- Network connections that automatically choose the highest performance levels without the need for costly and time consuming manual port configurations.
- Guaranteed network uptime and resiliency. If the NWay protocol detects that a device that is being attached is not of the same technology (i.e. Token Ring to Ethernet connection) the port will not allow a connection or data transfer saving the network from potentially catastrophic downtime.
- NWay Auto negotiation is backward compatible with 10Mbps only Ethernet devices.



Prior to connecting a network device, the link, activity and speed LEDs are not lighted (inactive).



Upon connecting a network device to port 1 of the switch, NWay Auto-Negotiation automatically detects that the connected device is operating at 100Mbps and sets switch port 1 to that speed. The green 100 LED indicates this status.



When a network device is connected that is running at 10Mbps, the 100 LED indicator will not light up indicating NWay Auto Negotiation has set the local switch port to 10Mbps.

Item #	Description	List Price
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Unicom's Unmanaged 10/100Mbps Ethernet Switches - 5 or 8 RJ45 Ports

The Mini-Switch 5 and 8 are super compact 10/100Base-TX switches. These parts represent the newest generation in Ethernet switching technology by supporting both 10 and 100Mbps speeds, half or full-duplex transmission modes and auto MDI/MDIX crossover checking. Units include a 9VDC power supply.

SWTC-32005T	Unicom 5 Port 10/100Mbps Unmanaged Ethernet Switch	25.00
SWTC-32008T	Unicom 8 Port 10/100Mbps Unmanaged Ethernet Switch	30.00

Unicom's Unmanaged 10/100Mbps Ethernet Switches - 16 or 24 Ports

Unicom's Dyna-Switch Series 16 and 24 port unmanaged Ethernet switches are an affordable and efficient way to upgrade a network. With sixteen or twenty-four 10/100Mbps ports with MDI/MDIX, these switches will fit neatly on a desktop or can be rack mounted with the included mounting brackets. With full duplex operation, the switches can increase the bandwidth of the 10Mbps Ethernet port and the 100Mbps fast Ethernet port to 20Mbps and 200Mbps, respectively. This switch supports IEEE 802.3 full-duplex flow control and half-duplex backpressure congestion control.

FEP31016T	Unicom 16 Port 10/100Mbps Unmanaged Ethernet Switch	99.00
FEP31024T	Unicom 24 Port 10/100Mbps Unmanaged Ethernet Switch	101.86

Unicom DynaGST 24 Port Gigabit Switch with SFP slots

The DynaGST 2402G Gigabit Ethernet switches are an ideal solution for solving traffic congestion at the core of the network. They offer auto-negotiating 10/100/1000Base-T Gigabit Ethernet ports that can significantly improve your network backbone performance. The DynaGST switches provide two mini GBIC Gigabit slots for Gigabit speed network connections. The DynaGST Gigabit Ethernet switches feature an Auto MDI/MDIX function for each port and support store-and-forward switching.

GEP33224T-1	24 Port 10/100/1000Base-T with Two Slots for SFP (Mini) GBICs	429.00
GEP22000S-L	GBIC SFP Transceiver, 1000SX, LC, Multimode, 500m	99.00
GEP22100L-L	GBIC SFP Transceiver, 1000LX, LC, Single mode, 10km	199.00

Unicom 24 Port 10/100/1000Base-T Managed Switch with 4 SFP Slots

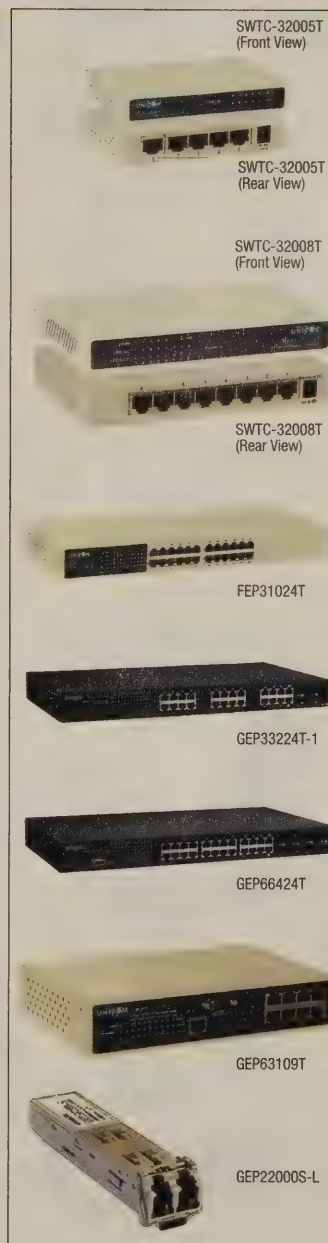
Unicom's SmartGST-2404GM managed switch is the newest generation of fast Ethernet switching technology. Twenty-four 10/100/1000Base-T auto sensing, auto MDI/MDIX ports provide a completely flexible high-performance non-blocking full wire speed solution. Enhanced by its many features including SFP GBIC ports, VLAN tagging, port trunking, spanning tree, and broadcast storm filters, this switch is an ideal solution for campus and enterprise networks.

GEP66424T	24 Port 10/100/1000Base-T Managed Switch with 4 SFP Slots	479.00
GEP22000S-L	GBIC SFP Transceiver, 1000SX, LC, Multimode, 500m	99.00
GEP22100L-L	GBIC SFP Transceiver, 1000LX, LC, Single mode, 10km	199.00

Unicom 8 Port 10/100 Managed Switch with 1000Base-T Port and SFP Slot

Unicom's SmartGST-900M managed switch is the newest generation of fast Ethernet switching technology. Eight 10/100Base-TX auto sensing, auto MDI/MDIX ports provide a completely flexible high-performance non-blocking full wire speed solution. Enhanced by its many features including one SFP GBIC port, one 1000Base-T port, VLAN tagging, port trunking, spanning tree, and broadcast storm filters, this switch is an ideal solution for campus and enterprise networks. The SmartGST-900M management features also include port-based, dynamic and static VLANs, GVRP, IGMP Snooping, port mirroring and port security. The SFP GBIC and 1000Base-T port offer high-speed long haul connections that eliminate bottlenecks to create the ideal backbone.

GEP63109T	8 Port 10/100 Managed Switch with 1000Base-T Port and SFP Slot	329.00
GEP22000S-L	GBIC SFP Transceiver, 1000SX, LC, Multimode, 500m	99.00
GEP22100L-L	GBIC SFP Transceiver, 1000LX, LC, Single mode, 10km	199.00

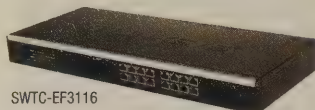


Informative e-mail newsletters

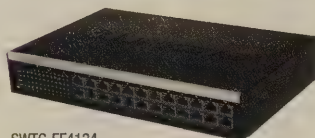
Our newsletters are packed with tips, tutorials, product info and downloads! L-com.com/NewsletterSignUp



SWTC-EZXS55W



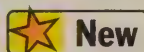
SWTC-EF3116



SWTC-EF4124



SWTC-SR2016



New



JETBOX 9300



JETBOX 9310



JETNET 1701



JETNET 3010G



JETNET 3705

Item #	Description	List Price
✓RoHS Linksys EtherFast® 10/100Mbps 5, 8 or 16 Port Workgroup Switches		
Linksys EtherFast 10/100Mbps workgroup switches allow quick and easy migration to fast Ethernet's 100Mbps speed. Every switch includes a complete suite of advanced data error detection and correction features for surefire communication every time. Auto partitioning, data-collision control, signal regeneration and incoming frame retiming ensure that none of the data is lost, even during heavy network traffic. Available in 5, 8, or 16 port configurations.		
SWTC-EZXS55W	EtherFast 10/100Mbps 5 Port Auto-Sensing Switch	32.95
SWTC-EZXS88W	EtherFast 10/100Mbps 8 Port Auto-Sensing Switch	54.00
SWTC-EZXS16W	EtherFast 10/100Mbps 16 Port Auto-Sensing Switch	85.00

✓RoHS Linksys EtherFast® 10/100Mbps Ethernet Switches with Optional Fiber Module Slot

Linksys EtherFast 3100 Series 10/100 Ethernet Switches will boost your network performance with full duplex data transfer and dedicated bandwidth. This series features non-blocking, wire-speed switching that forwards packets quickly and eliminates bad packets on your network ensuring uptime. Address learning and aging and data flow control help prevent packet collisions and data transfer errors. The EtherFast 3100 series is rack mountable.

SWTC-EF3116	Linksys EtherFast 16 Port 10/100Mbps Ethernet Switch with Optional Module Slot	139.00
SWTC-EF3124	Linksys EtherFast 24 Port 10/100Mbps Ethernet Switch with Optional Module Slot	159.00

✓RoHS Linksys EtherFast® 10/100Mbps Ethernet Switches

Linksys EtherFast 4100 Series 10/100Mbps Ethernet switches will boost your network performance with full duplex data transfer and dedicated bandwidth. This series features non-blocking, wire-speed switching that forwards packets quickly. Address learning and aging and data flow control help prevent packet collisions and data transfer errors.

SWTC-EF4116	Linksys EtherFast 16-Port 10/100Mbps Ethernet Switch	89.00
SWTC-EF4124	Linksys EtherFast 24-Port 10/100Mbps Ethernet Switch	139.00

✓RoHS Linksys 5, 8 and 16 Port 10/100/1000 Gigabit Ethernet Switches

The Linksys 10/100/1000 gigabit switches provide non-blocking, wire speed switching for your 10, 100 and 1000 megabit network clients. By utilizing these switches you can upgrade your high-speed workstations to full gigabit speeds as necessary, while continuing to service other clients at their current speeds. These switches are a perfect solution for graphics, multimedia and other applications that have to move large files across the network quickly. All ports support automatic MDI/MDI-X crossover detection, auto-negotiation for speed as well half- or full-duplex mode.

SWTC-SD2005	Linksys 5 Port 10/100/1000 Desktop Gigabit Ethernet Switch	75.00
SWTC-SD2008	Linksys 8 Port 10/100/1000 Desktop Gigabit Ethernet Switch	169.00
SWTC-SR2016	Linksys 16 Port 10/100/1000 Rackmount Gigabit Ethernet Switch	223.00

✓RoHS Korenix JetBox Industrial Computers

The Korenix JetBox Series is the total solution for embedded computing. These RISC CPU based computers feature versatile peripheral interfaces, communication capabilities and storage expandability. The built-in OS (Linux, WinCE, or Windows XP embedded) supports services and daemons and provides application development tools for users to develop their own applications. These are only a few of the advantages of implementing a Korenix JetBox solution.

JETBOX 9300	JetBox Industrial Computer	1640.00
JETBOX 9310	JetBox Industrial Computer with 4 Port PoE	1750.00

✓RoHS Korenix JetNet Industrial PoE Splitter 10/100/1000TX

The JetNet Series from Korenix offers a variety of state-of-art managed and unmanaged Ethernet switches meeting all your industrial networking needs. These cost effective, rugged switches were designed for harsh applications such as manufacturing floors, processing plants, and other areas where commercial grade switches would fail.

JETNET 1701	Industrial PoE Splitter 10/100/1000TX	148.00
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✓RoHS Korenix JetNet Industrial Switch 7 10/100TX,3 Gig RJ-45/SFP Combo

Korenix's JetNet is used to provide Ethernet LAN connectivity in harsh environments such as water treatment plants, manufacturing facilities and highway/tunnel systems. Auto MDI/MDI-X allows for cable flexibility. DIN Rail or wall mount options offers location flexibility. Dual power input DC12~48V.

JETNET 3010G	Industrial Switch 7 10/100TX,3 Gig RJ-45/SFP Combo	660.00
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✓RoHS Korenix JetNet Industrial Switch 5 10/100TX PoE

The JetNet Series from Korenix offers a variety of state-of-art managed and unmanaged Ethernet switches meeting all your industrial networking needs. These cost effective, rugged switches were designed for harsh applications such as manufacturing floors, processing plants, and other areas where commercial grade switches would fail.

JETNET 3705	Industrial Switch 5 10/100TX PoE	270.00
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Item #	Description	1-9	10-24	25-99	100-249	250-499
Power-over-Ethernet (PoE) 12 and 48 VDC Injectors						
HyperLink offers a wide range of PoE injector styles including reverse polarity, 12 VDC and 48 VDC models. These PoE injectors can be used to connect PoE compliant devices such as access points, IP phones or wireless routers and supply data as well as power over a single CAT5 cable. Power-over-Ethernet eliminates the need for an AC outlet at each end device location. Only a single Ethernet cable is run to each device such as an access point instead of separate power and data cables. The injector is typically installed near the Ethernet switch.						

RoHS All-In-One Power Supply and Injector

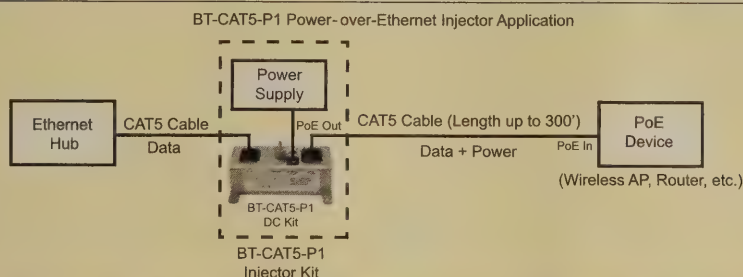
PS4820-POE	48 VDC, 20 W, Dual RJ45, Includes Power Cord	39.99	38.39	36.79	33.99	29.99
PS4860-POE	48 VDC, 60 W, Dual RJ45, Requires PSCORD3	74.99	71.99	68.99	63.74	56.24

RoHS Injectors / Taps

BT-CAT5-P1	5-48 VDC, 1 Port	29.99	27.59	25.19	22.79	20.39
BT-CAT5-P1-4848	48 VDC, 1 Port, Includes 48VDC/48W Supply	74.99	68.99	62.99	56.99	50.99
BT-CAT5-P1R	5-48 VDC, 1 Port, Reverse Polarity	29.99	27.59	25.19	22.79	20.39
BT-CAT5-P1R4848	48 VDC, 1 Port, Reverse Polarity, Includes 48VDC/48W Supply	79.99	73.59	67.19	60.79	54.39
BT-CAT5-R1-12	12 VDC, 1 Port, Regulated	59.99	53.99	47.99	41.99	CALL

RoHS Accessories

PSCORD3	3 Conductor Plug, USA/AC Power Cord, 1ft	2.99	2.75	2.51	2.27	2.03
CA-CAT5-01	CAT5 Ethernet Patch Cable, 1ft	2.29	2.06	1.83	1.60	1.37
CA-POE-02	CAT5 PoE Conversion Cable for Cisco APs, 2ft	14.99	13.49	11.99	10.49	8.99



Item #	Description	List Price
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RoHS Transition Networks Redundant Fast Ethernet 100BASE-FX Adapter Cards

Maintain network stability and reliability with a redundant NIC. Dual-port NICs provide redundancy and if port failure is detected, the auto-failover feature automatically transfers network communications to the secondary port without disrupting the network. Whether it's a desktop solution or network server, using a redundant NIC with auto-failover guarantees consistent reliable network performance.

NIC-NDFX-ST	Transition Networks NIC Redundant 100FX ST Multimode	459.00
NIC-NDFX-SC	Transition Networks NIC Redundant 100FX SC Multimode	459.00
NIC-NDFX-MT	Transition Networks NIC Redundant 100FX MTRJ Multimode	459.00

RoHS Planet 10/100Base-TX PCI Adapter with Wake On LAN

The NIC-PT9503A 10/100 Ethernet adapter is designed for use with desktop PCs with 32-bit PCI expansion slots. This adapter supports both 10Base-T and 100Base-TX networks right out of the box. The adapters 10/100 RJ45 port automatically detects a network's maximum speed and adjusts itself accordingly. Additionally, the adapter features Wake-On-LAN (WOL) event management.

NIC-PT9503A	Planet 10/100Base-TX PCI Adapter RJ45	12.95
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RoHS Planet 10/100Mbps Cardbus PCMCIA Ethernet Adapter

The NIC-PT3504-FC can be used in any laptop computers 32 Bit PCMCIA slot. This adapter features a single RJ45 port for connecting to Ethernet network devices. Additionally, this adapter complies with PCMCIA Release 2 Type II and JEIDA v4.x standards. Support for auto negotiation as well as half and full duplex operation is included. The NIC-PT3504-FC is the perfect plug and play solution for your PCMCIA adapter needs.

NIC-PT3504-FC	Planet 10/100Mbps CardBus PCMCIA Ethernet Adapter	19.95
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RoHS NETGEAR's FA311 10/100Mbps Ethernet PCI Network Interface Card

The NETGEAR Ethernet Network Card connects users to other networked computers, printers, zip drives, routers, network storage and the Internet. Plug it in and achieve high-speed 10/100Mbps transfer rates for data. NETGEAR's single chip design improves the reliability and performance of the network card. Be prepared for the future with both 3.3v PCI and low-profile PCI capability - no upgrades required. All major operating systems are supported: Microsoft Windows, Microsoft NT, Novell NetWare, RedHat Linux and SCO OpenServer Unix.

NIC-FA311	NETGEAR 10/100Mbps PCI NIC	19.25
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RoHS NETGEAR's FA511 10/100Mbps Cardbus 32-Bit NIC

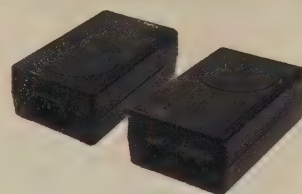
The NETGEAR 10/100Mbps CardBus Mobile Ethernet Adapter provides laptops with 32-bit, Plug-and-Play, bus-mastering network connectivity. The FA511 auto-detects network speed without manual port reconfiguration. Since the CardBus operates at a modest 3.3V, it conserves the laptop's power consumption and extends battery life. The FA511 also supports full-duplex capabilities for a maximum throughput of 200Mbps.

NIC-FA511	NETGEAR 10/100Mbps Cardbus 32-Bit Card	39.00
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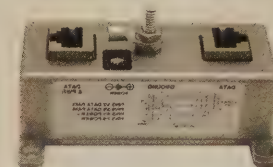
Linksys EtherFast® 10/100Mbps LAN PCI Card

The Linksys EtherFast 10/100Mbps LAN Card is a high performance network adapter for desktop computers with 32-bit PCI expansion slots. The card's 10/100Mbps combo RJ45 port automatically detects a network's maximum speed and adjusts itself accordingly. This PC card also features Wake-On-LAN (WOL) event management. If the installed PCI motherboard has built-in WOL support, you'll be able to remotely turn on that computer.

NIC-LNE100TX	Linksys EtherFast 10/100Mbps LAN PCI Card	21.00
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PS4820-POE



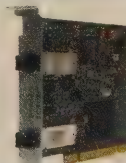
BT-CAT5-P1

Did you know...

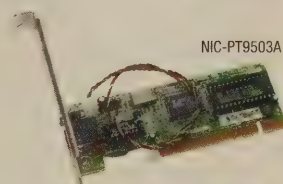
The main advantage of PoE for the Wi-Fi industry is the installation of remote or outside equipment without having to connect to AC power.



NIC-NDFX-SC



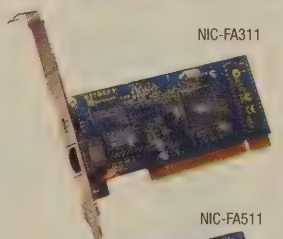
NIC-NDFX-MT



NIC-PT9503A



NIC-PT3504-FC



NIC-FA311



NIC-FA511



NIC-LNE100TX



For more useful information go to....
www.L-com.com/Resources



Wireless Networking Tutorial

Wireless Networking Terms

802.11a: An IEEE standard for wireless Ethernet networking that operates in the 5 GHz radio band (ISM frequency band) and uses the IP protocol. Maximum transmission speed is 54Mbps and approximate wireless range is 25-75 feet indoors.

802.11b: An IEEE standard for wireless Ethernet networking that operates in the 2.4 GHz radio band (ISM frequency band) and uses the IP protocol. Maximum transmission speed is 11Mbps and approximate wireless range is 100-200 feet indoors.

802.11g: An IEEE standard for wireless Ethernet networking that operates in the 2.4 GHz radio band (ISM frequency band) and uses the IP protocol. Maximum transmission speed is 54Mbps and approximate wireless range is 100-200 feet indoors.

Access Point: A wireless Access Point is used to connect PC's with wireless adapter cards to a wired Ethernet network. Access points can support several or all of the three most popular IEEE WLAN standards including 802.11a, 802.11b and 802.11g. Sometimes people may refer to an Access Point as a Wireless Hub.

Adapter: A wireless adapter or NIC (Network Interface Card) that is used to connect to a laptop

or PC to a wireless LAN (Local Area Network).

Ad-hoc: An Ad-hoc wireless network is made up of a group of PC's and/or laptops connected as an independent wireless LAN.

Encryption: Encryption is used to hide or mask the data being sent through wireless transmissions. There are several popular and widely used encryption methods used today including WEP (Wired Equivalent Privacy, and WPA (Wi-Fi Protected Access).

Hot Spot: A wireless Hot Spot is a public area where wireless laptops can connect to WLAN and receive Internet access. Recently many coffee shops and airports have added this capability for their customer's convenience.

Infrastructure: A Wireless Infrastructure is comprised of both wired and wireless LAN's. Typically this type of configuration is found in SOHS and Enterprise environments where there are many user groups or divisions requiring access to shared resources.

ISM Band: The ISM (Industrial, Scientific and Medical) band, which is controlled by the FCC in the US, generally requires licensing for various spectrum use. To accommodate wireless LAN's, the FCC has set aside bandwidth for unlicensed use

including the 2.4GHz spectrum where many WLAN products operate.

Roaming: The ability to use a wireless device and be able to move from one access point's range to another without losing the connection.

Router: A wireless router is a protocol dependent device that is used to connect sub networks or different independent WLAN's together. Routers provide security as they can be configured to only allow certain users access to different services such as the Internet and file servers when connecting a WLAN to the Internet a router is required.

SOHO (Small Office/Home Office): Is a widely used acronym which defines applications or products used in homes or in small offices.

SSID: The SSID is the unique name shared among all devices on the same wireless network

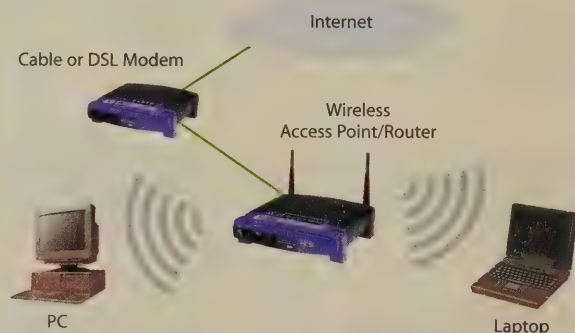
Wi-Fi: Wi-Fi stands for Wireless Fidelity and is used to define any of the IEEE 802.11 wireless standards. The term Wi-Fi was created by the Wireless Ethernet Compatibility Alliance (WECA). Products certified as Wi-Fi compliant are interoperable with each other even if they are made by different manufacturers.

What is a Wireless Network?

A wireless network is very similar to the wired network in that all the same pieces are still required, a wireless NIC, Access Point (similar to a wired network Ethernet Switch) and a wireless router. The only thing that's missing is the cables.

First you will need to determine if your desktop or Laptop PC already has a wireless NIC built in. Again, check your users guide to confirm this. Once your wireless NIC is installed you will need to configure the SSID (service set identifier) on each of the PC's to use the same name. Also, you need to make sure all the wireless NICs are configured to be on the same channel and set levels of encryption if desired. Your wireless access point or router should come with detailed explanation of how to configure the SSID and security features such as encryption and access lists. Many of today's wireless routers come with the access point functionality built right in.

The diagram below shows a simple wireless network set up.



	802.11a	802.11b	802.11g
Speed	Up to 54 Mbps	Up to 11 Mbps	Up to 54 Mbps
Frequency	5 Ghz	2.4 Ghz	2.4 Ghz
Indoor Range	25-75 feet	100-200 feet	100-200 feet
Compatibility	Incompatible with 801.11b and 802.11g	Compatible with 802.11g	Compatible with 802.11b

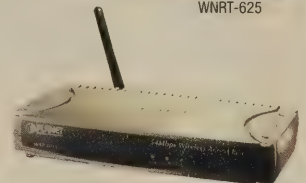
The diagram below shows a typical business wireless LAN.



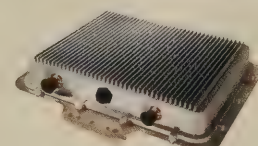
Item #	Description	List Price
✓RoHS Planet 802.11n Wireless Broadband Router		
The WNRT-625 is a broadband router integrated with an 802.11n Access Point. The IEEE 802.11n standard uses the 2.4GHz frequency band, the same as IEEE 802.11b; but it provides almost five times the throughput rate of 802.11b. With the latest integrated Super G technology, maximum data rates of 108Mbps are realized. The WNRT-625 is also backward compatible and interoperable with IEEE 802.11b compliant wireless devices. This router supports 64/128bit WEP encryption as well as WPA (Wi-Fi Protected Access) and 802.1x authentication. The router features a built-in 4-port 10/100 Ethernet switch as well as virtual server, DMZ and natural firewall functions.		
WNRT-625	Planet 802.11n Wireless Broadband Router	95.00
✓RoHS Planet 802.11g Wireless Ethernet 54Mb Access Point		
The WLAN-WAP4033 is a cost effective IEEE 802.11g wireless access point. IEEE 802.11g technology uses the 2.4GHz frequency band, the same as IEEE 802.11b, but provides almost five times the data throughput rate than 802.11b. You can use this access point to establish a wireless LAN connection that enables multiple PCs to access the wireless LAN easily. The WLAN-WAP4033 supports WPA, WPA2 64/128-bit WEP (Wired Equivalent Privacy) Encryption and MAC address filtering capabilities providing comprehensive wireless network security preventing unauthorized wireless stations from accessing your wireless network. This product provides a user-friendly interface and allows configuration from a web browser.		
WLAN-WAP4033	Planet 802.11g Wireless Ethernet 54Mb Access Point	69.00
✓RoHS Planet 802.11a/b/g Outdoor MESH Access Points		
The MAP-2000 and MAP-2000R outdoor access points support IEEE 802.11a/b/g standards and provide a highly scalable mesh network. All mesh nodes can operate at 2.4GHz for long range and better penetration, or at 5GHz to minimize frequency interference. Both models are encased in an IP-66 protection housing and are designed for outdoor installation. The detachable antennas design allows users to use multiple antenna styles for various deployment requirements. Enhanced with the advanced MDOLSR (Modified Dynamic Optimal Link State Routing) protocol, data is always transferred on the optimal path. The MAP-2000 offers a WAN interface for Internet connection and the MAP-2000R provides a LAN interface for dedicate Relay usage. Security features include AES backhaul link, WPA2 level client access, SSL for web management, and MAC filtering. The MAP-2000 and MAP-2000R also include MAP Management System software. This software is built around the SNMP protocol and can be installed in a PC. This software can locate and monitor all Mesh APs in the same network.		
MAP-2000	Planet 802.11 a/b/g Outdoor MESH Gateway Access Point	995.00
MAP-2000R	Planet 802.11 a/b/g Outdoor MESH Relay Access Point	995.00
✓RoHS Planet 802.11a/b/g Indoor MESH Access Point		
The MAP-2100 indoor access point supports IEEE 802.11a/b/g standards and provides a highly scalable mesh network. All mesh nodes can operate at 2.4GHz for long range and better penetration, or at 5GHz to minimize frequency interference. The detachable antennas design allows users to choose multiple antenna styles for various deployment requirements. Enhanced with the advanced MDOLSR (Modified Dynamic Optimal Link State Routing) protocol, data is always transferred on the optimal path. The MAP-2100 offers a WAN interface for the Internet connection and a LAN interface for Ethernet connectivity. Security features include AES backhaul link, WPA2 level client access, SSL for web management, and MAC filtering. The MAP-2100 also includes MAP Management System software. This software is built around the SNMP protocol and can be installed in a PC. This software can locate and monitor all Mesh APs in the same network.		
MAP-2100	Planet 802.11 a/b/g Indoor MESH Access Point	429.00
✓RoHS Planet Wireless G 54Mbps PC Cardbus Adapter		
The Planet IEEE 802.11g wireless adapter can operate in either Ad-Hoc mode (Point to Point/Point to Multipoint without an Access Point) or in Infrastructure mode (Point to Point/Point to Multipoint with an Access Point). With almost five times the data rate of traditional 802.11b products, these adapters are suitable for high bandwidth multimedia applications. The WLAN-NIC3560 operates in the 2.4GHz unlicensed ISM band and is compliant with both the 802.11b and 802.11g standards. This dual-standard support allows for greater flexibility of deployment and use. Support for both 64/128-bit WEP (Wired Equivalent Privacy) and Wi-Fi Protected Access (WPA) for securing wireless network connections is included. Windows 98SE/ME/2000/XP/Server 2003 are supported.		
WLAN-NIC3560	Planet Wireless G 54Mbps PCMCIA Adapter	35.00
✓RoHS Planet Wireless G 54Mbps PCI Adapter		
The WLAN-NIC8310 is an IEEE 802.11g wireless PCI card that supports data rates up to 54Mbps. This PCI adapter can operate in either Ad-Hoc mode (Point to Point/Point to Multipoint without an Access Point) or Infrastructure mode (Point to Point/Point to Multipoint with an Access Point). The WLAN-NIC8310 features a detachable dipole antenna that can be replaced with optional external antenna to obtain better signal quality and greater connection distances. Security features include support for both 64/128-bit WEP (Wired Equivalent Privacy) and Wi-Fi Protected Access (WPA). Windows 98SE/ME/2000/XP/Server 2003 are supported.		
WLAN-NIC8310	Planet Wireless G 54Mbps PCI Adapter	39.00
✓RoHS Planet 151 Series 802.3af Power Over Ethernet Injector and Splitters		
The POE-PT151 is an IEEE 802.3af Power over Ethernet Injector that provides DC 48V over Ethernet Cat5 cables. The POE-PT151 IEEE 802.3af Power over Ethernet Injector inserts DC Voltage onto a Cat.5 cable, allowing the cable between the Injector (POE-PT151) and Splitter (POE-PT151S-5V/9V/12V) to transfer data and power simultaneously. The maximum distance between the Injector and Splitter is 100 meters. Each Splitter ships with two power cables with 2.0mm and 2.5mm female power connectors.		
POE-PT151	Planet 802.3af Power over Ethernet Injector	39.00
POE-PT151S-5V	Planet 802.3af Power over Ethernet Splitter, 5V 2A	29.00
POE-PT151S-9V	Planet 802.3af Power over Ethernet Splitter, 9V 1.3A	29.00
POE-PT151S-12V	Planet 802.3af Power over Ethernet Splitter, 12V	29.00
✓RoHS Planet 12 and 24 Port 802.3af Power Over Ethernet Injector Hubs		
The Planet POE-PT1200 and POE-PT2400 are 12-port and 24-port IEEE802.3af Power over Ethernet injector hubs that comply with IEEE802.3, IEEE802.3u and IEEE802.3af standards. Equipped with 12 or 24 10/100BASE-TX Fast Ethernet ports, the products support full 48VDC power for any remote IEEE802.3af powered device such as Wireless LAN Access Point's, IP phone's, and LAN Cameras. These hubs feature Web and Console management interfaces to allow administrators easy management access. The hubs can auto detect the power status on each port and show messages on both the Web and Console management interface.		
POE-PT1200	Planet 12 Port 802.3af Power over Ethernet Injector Hub	259.00
POE-PT2400	Planet 24 Port 802.3af Power over Ethernet Injector Hub	399.00



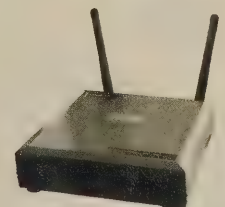
WNRT-625



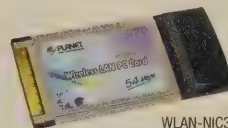
WLAN-WAP4033



MAP-2000



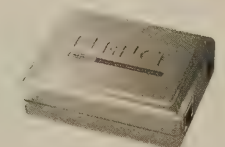
MAP-2100



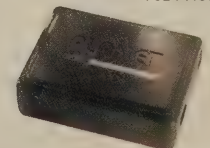
WLAN-NIC3560



WLAN-NIC8310



POE-PT151



POE-PT151S-12V



POE-PT1200

Same day shipping

Orders placed before 4:00 EST
ship the same day.



L-com Global Connectivity



Surveillance Tutorial

What is Surveillance?

Surveillance means to watch or watch over. In today's society the act of surveillance is used to protect assets and people. Many times surveillance evidence such as recorded video is used in courts of law as part of the prosecution or defense.

How are Surveillance products used?

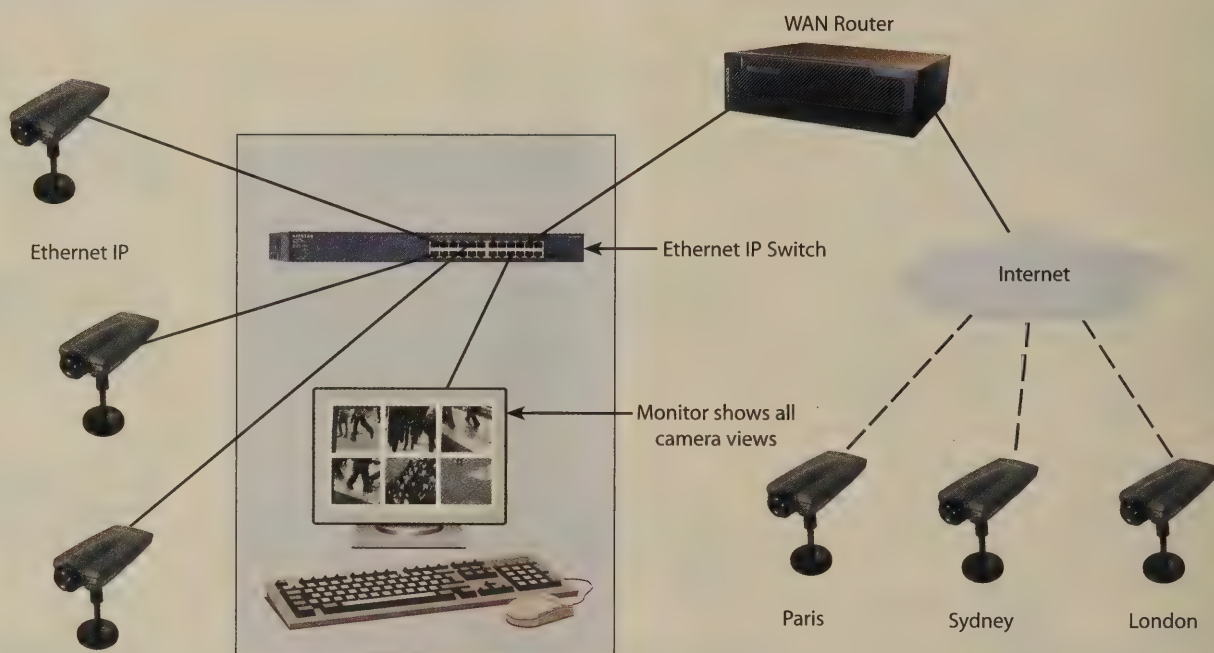
Many different products are used in surveillance systems including cameras, cabling, adapters, Digital Video Recorders(DVR's) and monitors. Typically a camera (digital or analog) is set up in the surveillance

area. These cameras can either be hidden or in plain site (often used as a deterrent to crime) depending on the application. The camera is connected via copper or fiber cabling back to a central control area where personnel monitor displays. Many times a DVR is used to record a specific time frame such as a 24 hour period. This taped footage can be replayed if there are no personnel available to actively monitor the displays or it can be used in court as evidence.

Where are Surveillance products used?

Surveillance products and networks are used by the military, governments, private businesses, schools, hospitals and any other public or private building or area such as a parking lot to protect people and property and to deter crime. Surveillance systems are used in both industrial and commercial settings.

Typical Ethernet IP Surveillance Camera Installation



Benefits of an IP Surveillance Network

With traditional CCTV video surveillance systems specific broadcast standards must be considered. The two main video broadcast standards used throughout the world are PAL (Phase Alternating Line) and NTSC (National Television Standards Committee). NTSC is used in North America and Japan, PAL is used in almost every other location in the world. When implementing surveillance networks using these standards/technologies, interoperability can be an issue as devices from different countries will not work with unlike equipment. When implementing a global CCTV

surveillance system costly analog to digital converters and video capture cards may be required. By utilizing an IP based system no costly converters are required and system components such as switches, routers and PCs are readily available from myriad vendors across the globe. Global access and control of cameras is provided via IP through routers and switches. Additionally, IP cameras provide superior resolution than traditional CCTV cameras.



Item #	Description	List Price
✓RoHS Planet Indoor/Outdoor IR Analog Surveillance Camera 30 Meters		
The Planet CAM-PTIR338 can be used indoors or outdoors and is the perfect solution for today's surveillance requirements. This camera features zero-lux illumination and 36 IR illuminators which are built around the lens to provide clear vision at night. Via new LED technology, the built-in illuminators ensure high-quality monochrome images in total darkness as far as 30 meters. In addition, the CAM-PTIR338 features a waterproof enclosure constructed of rugged aluminum. The CAM-PTIR338 IR camera provides reliable operation in any environment.		
CAM-PTIR338	Planet Indoor/Outdoor IR Analog Camera 30 Meters	139.00
✓RoHS Planet Indoor/Outdoor IR Analog Surveillance Camera 15 Meters		
The Planet CAM-PTIR138 features zero-lux illumination and 12 IR illuminators which are built around the lens to provide clear vision at night. Via new LED technology, the built-in illuminators ensure high-quality monochrome images in total darkness as far as 15 meters. In addition, the CAM-PTIR138 features a waterproof enclosure constructed of rugged aluminum. The CAM-PTIR138 IR camera provides reliable operation in any environment.		
CAM-PTIR138	Planet Indoor/Outdoor IR Analog Camera 15 Meters	99.00
✓RoHS Planet Indoor/Outdoor IR Vandal Proof Analog Surveillance Camera 15 Meters		
The Planet CAM-PTIVP52 provides a rugged, vandal proof video surveillance solution. The CAM-PTIVP52's unique design prevents annoying halo issues that are sometimes seen with IR dome cameras. This design blocks the refracted IR rays from entering into the lens and provides a clear picture. Additionally, the CAM-PTIVP52 features zero-lux illumination and 6 IR illuminators which are built around the lens to provide clear vision up to 15 meters at night.		
CAM-PTIVP52	Planet Indoor/Outdoor IR Vandal Proof Analog Camera 15 Meters	199.00
✓RoHS Planet Wired IP Ethernet Camera with Audio		
The ICA-PT101 Ethernet IP Internet camera provides a cost effective, advanced digital Internet camera solution for wired surveillance applications. The ICA-PT101 supports wired connectivity only. This camera supports MPEG-4 video compression technology and a motion detection feature. If motion is detected in the surveillance area, the camera will capture 10 images, attach them in an email, and send them to a specified e-mail address. These cameras also support audio functionality, by connecting an external microphone to the camera; audio as well as video will be sent through the Internet or LAN.		
ICA-PT101	Planet Internet Camera with Audio	129.00
✓RoHS Planet Wired Internet Camera with Audio		
The ICA-PT102 provides an advanced Internet camera solution, supporting wired Ethernet networking. The ICA-PT102 can be placed in a wired LAN or an available xDSL/Cable modem connection. With Plug-N-Watch capability, set up is fast and easy! The ICA-102 uses advanced MPEG-4 video compression technology. By using MPEG-4 technology, you can view a high quality video with a simple web browser or media player. Advanced features include motion detection and audio recording. If a motion is detected in a surveillance spot, this function will capture 10 images and attach them in an email, then send them to a specified account. Furthermore, by connecting an external microphone to the camera, audio can be recorded along with the live image. With the bundled utility, you can record video by manual control or arrange automatic scheduled recording.		
ICA-PT102	Planet Internet Camera with Audio	169.00
✓RoHS Planet ICA-PT107 Wired and Wireless IP Surveillance Cameras		
Planet's powerful and economical ICA-107 Series Internet cameras feature integrated microcomputers and high quality CMOS digital image sensors, enabling them to display high quality live streaming video over a LAN or the Internet. The advanced motion detection feature supported by the ICA-107 Series can notify users via email or ftp of any detected movement. ICA-PT107W supports 802.11b/g and the ICA-PT107P features an 802.3af standard PoE interface. This provides location flexibility where power outlets are not present.		
ICA-PT107	Planet IP Surveillance Camera	100.00
ICA-PT107P	Planet IP Surveillance Camera with PoE Support	115.00
ICA-PT107W	Planet Wireless IP Surveillance Camera 802.11b/g	125.00
✓RoHS Planet ICA-PT108 Wired and Wireless IP Surveillance Cameras		
Planet's ICA-108 Series IP cameras can send live video and two-way audio via the Internet to a web browser anywhere in the world! The ICA-PT108 / PT108W features zero-lux illumination and 6 IR illuminators built around the lens providing a crystal clear image even at night. The ICA-108 Series offers color video in the day time and monochrome video in complete darkness up to 10 meters. Additionally, these cameras feature MPEG-4 and M-JPEG streaming video. Moreover, up to 10 users can access the ICA-108 / 108W at any time simultaneously via IP protocol.		
ICA-PT108	Planet IP Surveillance Camera with Two-Way Audio	145.00
ICA-PT108W	Planet Wireless IP Surveillance Camera 802.11b/g with Two-Way Audio	199.00
✓RoHS Planet ICA-PT601/PT651 Indoor/Outdoor Speed Dome IP Surveillance Cameras		
Planet's ICA-PT601/ PT651, indoor / outdoor speed dome Internet cameras, offer pan, tilt and zoom to control over TCP/IP networks. The ICA-PT601/ PT651 features a 220X zooming (22x optical zoom, 10x digital zoom), auto focus, auto iris as well as fast, accurate and continuous 360 panning operations. With 32 presets, 4 camera tour configurations and combined with motion detection, these unparalleled surveillance functions satisfy all of your demanding surveillance and remote monitoring requirements. The ICA-PT601 is designed for indoor use and the ICA-PT651 features a rugged IP66 rated housing and can be used outdoors. Additional features include simultaneous 10 user access, support for both MPEG-4 and M-JPEG, and two-way audio support.		
ICA-PT601NT	Planet Indoor Speed Dome IP Surveillance Camera	1489.00
ICA-PT651NT	Planet Outdoor Speed Dome IP Surveillance Camera	1899.00
✓RoHS Planet 1-Channel Internet Video Server		
Planet's IVS-PT110 server allows the conversion of any analog camera into a fully functional digital IP camera. It can stream digitized video over an office network in the same way as current IP cameras do. By using the IVS-PT110 server with an analog camera, all elements of an existing analog surveillance system can be upgraded from network to a new IP based surveillance system. The IVS-PT110 server can send live video and audio via the Internet to a web browser anywhere in the world! Additionally, the IVS-PT110 supports two-way audio and up to 10 users can access the IVS-110 at any point simultaneously.		
IVS-PT110	Planet 1-Channel Internet Video Server	229.00



"I find L-com's site quality to be excellent. Everything seems very well laid out, logical, and easy to locate. I like the use of permanent frames for instant navigation throughout the site. Makes it a snap to find anything I might look for." - Scott Altice, Altice Contract Services



Serial Converter / Device Server Tutorial

■ What is a Serial Converter?

A serial converter, sometimes referred to as a protocol converter, converts different serial protocols such as RS232 and RS485.

■ How is a Serial Converter used?

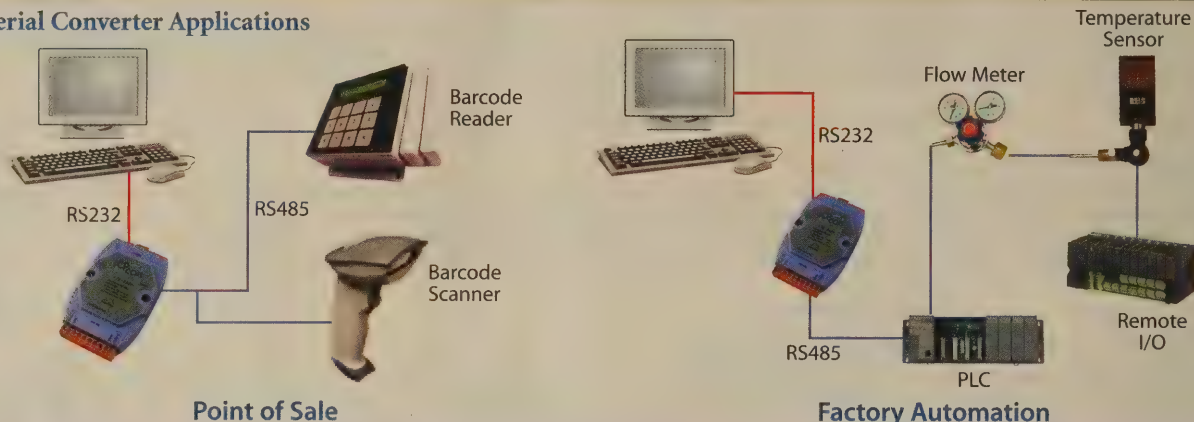
Most serial converters have two ports or terminal blocks where copper

wire, UTP or multi conductor data cable, are attached either by screwing in (terminal block) plugging in RJ11, RJ45 or screwing in DB9, DB25 the connector or leads. One end interfaces with a RS232 network and the other with a RS422 network for example.

■ Where are Serial Converters used?

Serial converters are used in many applications and environments including Point of Sale (POS), factory automation, processing plants (food, petroleum) and warehouse and shipping operations.

Typical Serial Converter Applications



■ What is a Device Server?

A Device Server, sometimes referred to as an Ethernet Serial Server, is used to connect a serial network such as RS232 to an Ethernet device or Network that uses the IP (Internet Protocol) protocol.

■ How is a Device Server used?

A Device Server has one or more serial ports and typically one RJ45 Ethernet port. Cables are connected to each port into the Serial and Ethernet network. Typically some set up is required to set up the

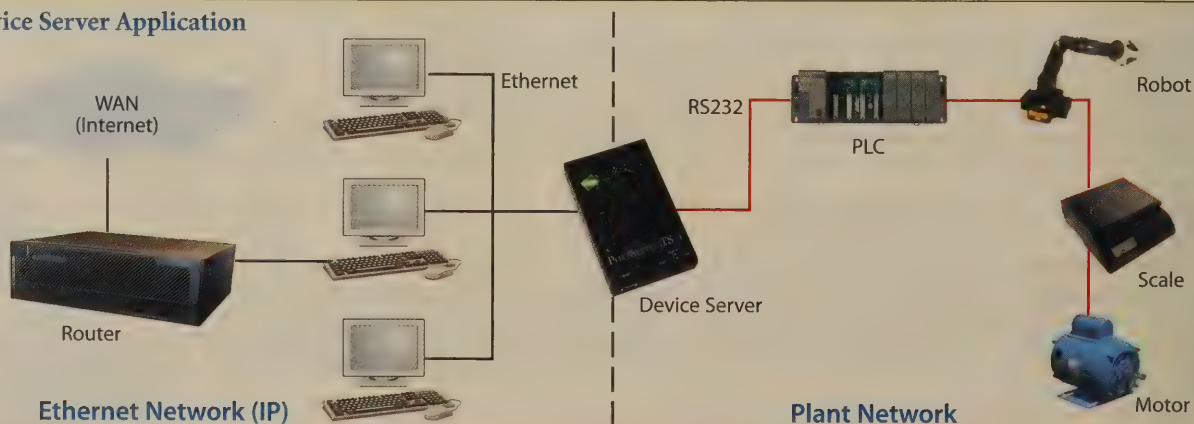
communication between the two networks via a management application built into the Device Server.

■ Where are Device Servers used?

Like Serial Converters, Device Servers are used in many industrial applications where legacy serial networks are installed. Many newer devices such as pumps, flow meters, scales and even industrial robots found on automobile manufacturing lines are being designed and built with Ethernet interfaces. Ethernet is

very scalable and it provides world wide access and control when used with a router. Additionally many industrial operations are now building integrated networks where Ethernet IP is used at the factory/ process level all the way through the administrative business network. In the past the two networks were separate as the plant used Modbus, Profibus and other serial based networks that did not communicate with the corporate Ethernet networks.

Typical Device Server Application



Item #	Description	List Price
RS232 to RS422 Serial Converter - Self-powered DB9 Connector		
Adding an RS422 interface to a PC is now a snap. The TB253P serial converter does this for full duplex signals at data rates up to 19.2 KBPS, without AC or DC power. The unit features a DB9F connector, (allowing it to be plugged directly into any one of the PCs com ports) and an RJ11 (6x4) jack.		
TB253P	RS232 to 422 Serial Converter, DB9F, Self-powered	63.20

RS232 to RS422 Serial Converter - Non-powered DB25 Connector

The TB263 RS232 to RS422 serial converter offers the user the benefits of other converters without the problem of supplying power. With only TD, RD and Ground the TB263 will provide operation at any allowed speed over 8,000 feet of twisted pair into a load of 120 Ohms. DB25 female connector and 4 screw terminals and RJ11 (6x4) jack.

TB263F	RS232 to 422 Serial Converter, DB25F, Non-powered	63.20
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RS232 to Current Loop Converter

The TB65A is a small, versatile, RS232 to current loop converter for use with teletypes or computers providing local terminal input via a 20mA (or 60mA) current loop. The TB65A includes a wall-mounted transformer and internal power supply circuitry. Additionally the TB65A provides switch selection of all RS232 operating modes including: Half Duplex - Passive Loop, Half Duplex - Active Loop, Full Duplex - Passive Loop, and Full Duplex - Active Loop. This product will drive 20mA and accept 20mA or 60mA loop currents and operates from DC to 9.6 KBPS.

TB65A	RS232 to Current Loop Converter (Includes Power Supply)	103.20
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RoHS Economy RS232 to RS422/RS485 Serial Converters

This RS232 to RS422/RS485 serial converter is an economical solution to interface problems. These devices are self-powered and feature a DB25F RS232 port and either a 4-pin terminal block or a RJ45 jack for connecting devices.

ICC47A-013	Economy RS232 to RS422/RS485 Serial Converter with 4-Pin Terminal Block	39.95
ICC49A-013	Economy RS232 to RS422/RS485 Serial Converter with RJ45 Jack	39.95

RoHS Economy RS232 to Current Loop Converter with 4-Pin Terminal Block

The ICC47B-014 RS232 to current loop serial converter provides users with an economical and compact way to extend RS232 signals using standard twisted pair cabling. The ICC47B-014 features a DB25F input connector and a 4-pin terminal block for the current loop side. The ICC47B-014 supports data rates up to 128Kbps and distances up to 1,000 meters. The unit includes a 9VDC external power supply and a one year manufacturer's warranty.

ICC47B-014	Economy RS232 to V.24 Interface Converter with 4-Pin Terminal Block	32.95
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RoHS RS232/423/485/422 Copper to Fiber Line Drivers

The FIB1-SERIAL series of copper to fiber RS232/423/485/422 stand alone converters allow you to extend the distance of your copper RSXXX ports up to 30 kilometers (single mode version). These robust converters feature support for RS485/422 (2 or 4 wire) operation as well as RS232 and RS423 data transmission. Other single mode versions are available which support distances up to 120 kilometers! Call today for details.

FIB1-SERIAL-2	RS232/423/485/422 to Multimode ST, 2km	279.00
FIB1-SERIAL-15	RS232/423/485/422 to Single mode ST, 15km	329.00
FIB1-SERIAL-30	RS232/423/485/422 to Single mode ST, 30km	349.00

RS232 Fiber Optic Line Drivers

The TB271 series of RS232 fiber optic line drivers provides maximum protection from ground currents and noise interference between equipment as well as increases operating distances to up to 2km. Three versions are available, supporting RS232 serial interfaces. The TB271 series achieves power from the transmit data line, whereas, the TB271A series has an external power supply (included). DB25M and DB25F versions available. Fiber optic connection utilizes dual ST connectors and duplex 62.5/125 multimode cabling.

TB271M	RS232 Fiber Line Driver, DB25M, Self Powered	129.00
TB271F	RS232 Fiber Line Driver, DB25F, Self Powered	129.00
TB271AF	RS232 Fiber Line Driver, DB25F, Externally Powered	135.20

RS422 and 485 Fiber Optic Line Drivers

Similar to the TB271 series except designed for RS422 and RS485. Both units utilize DB25F and dual fiber ST ports. For use with duplex Multimode Fiber Optic cabling.

TB272F	RS422 Fiber Line Driver, DB25F, Externally Powered	135.20
TB276F	RS485 Fiber Line Driver, DB25F, Externally Powered	135.20

RS232 Fiber Optic Line Driver - Auto Powered

The TB9271 RS232 fiber optic auto powered line driver features a standard DB9 Female interface and Dual ST style fiber connectors. It can be installed in applications requiring very high data transmission rates, offers resistance to Electromagnetic Interference (EMI) and isolation from lightning-induced current surges and ground loops. The unit employs an RS232 data interface, can achieve 56Kbps asynchronously and operates in either half- or full duplex modes over dual fibers up to 2km in length.

TB9271	RS232 Fiber Optic Auto Powered Line Driver	127.20
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RS232, 422 or 485 Fiber Optic Modem - DIN Rail Mountable

The model TB8277 is a unique asynchronous fiber optic modem whose optical interface can operate in either point to point or ring (daisy chain) configurations and whose electrical interface can also operate in point to point or multi-drop configurations depending on the user selected interface. The electrical interface is switch selectable between RS232, RS422 and RS485. The TB8277 is supplied with a power cord for the DC input. An optional AC power adapter is available for installations where 12 VDC is not accessible.

TB8277	DIN Rail Fiber Optic Media	228.00
TB8277-110PSU	Optional 110VAC Power Supply	14.95

RoHS Economy RS232 Fiber Optic Line Driver (Port or Ext Powered)

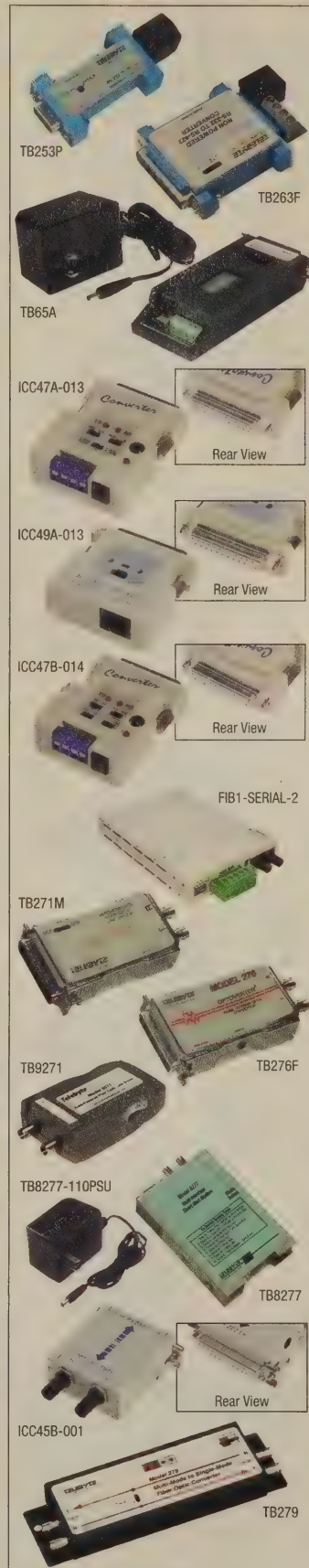
The ICC45B-001 RS232 fiber optic line driver provides users a compact, low cost solution for extending RS232 data over extended distances by using fiber optic cabling. The ICC45B-001 features a DB25F input connector and duplex ST connectors for an output. This device can handle up to 115Kbps and supports cable lengths up to 2km over multimode fiber cabling. This economical converter can either be port powered or powered by an optional external power adapter (sold separately). The ICC45B-001 can be used with standard 62.5/125 fiber cable.

ICC45B-001	Economy RS232 Fiber Optic Line Driver	69.00
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RoHS Single mode to Multimode Fiber Converter

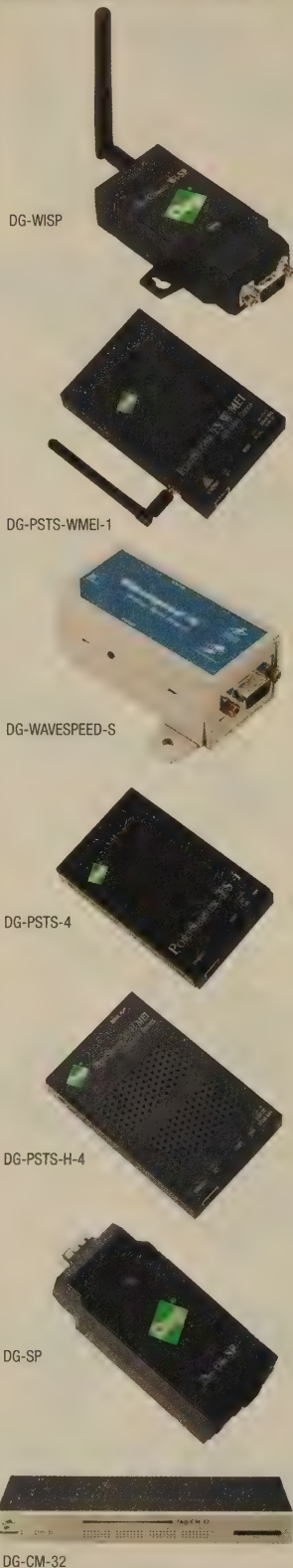
The TB279 provides transparent conversion between fiber optic devices utilizing multimode fiber and those with single mode fiber. Features of the TB279 include the ability to operate from DC to 2.5Mbps. This allows a variety of applications to take advantage of the transmission capability of the device and fiber cable. The TB279 is powered by a wall-mounted 12VDC adapter.

TB279	Single mode to Multimode Converter	639.20
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Helpful videos

How-to videos help with some of today's popular product applications. L-com.com/Tips



Item #	Description	List Price
RoHS Digi Connect Wi-SP		
The Digi Connect Wi-SP is the industry's first wireless serial server to provide enterprise-class wireless security through a complete set of strong encryption and authentication services, which are compliant with the WPA2 and 802.11i standards. It also offers additional unique features such as comprehensive product customization options and intelligent remote management and monitoring through Digi Connectware® Manager device management software.		
DG-WISP	802.11b to RS232/422/485 Wireless Device Server	359.95
RoHS Digi PortServer TS W MEI Series Device Servers		
The PortServer TS W MEI family of serial servers makes it easy to network-enable serial devices to a wireless 802.11b infrastructure. Users will appreciate the new external antenna and hidden wireless card offered by the versatile one-, two-, and four-port solutions. PortServer TS W MEI also delivers easy installation through an auto-run wizard on the CD for Microsoft® and UNIX® platforms, RS-232/422/485 serial ports for connectivity to almost any serial interface, and many advanced networking features.		
DG-PSTS-WMEI-1	Digi PortServer W MEI 1 Port	689.95
DG-PSTS-WMEI-2	Digi PortServer W MEI 2 Port	729.95
DG-PSTS-WMEI-4	Digi PortServer W MEI 4 Port	799.95
Digi Wavespeed/S RS232 to Bluetooth Wireless Adapter		
The Wavespeed/S Bluetooth wireless serial adapter offers a secure, standards-based solution to enable wireless RS232 serial data transfer between peripheral devices and a host. This standalone solution increases user mobility in mission-critical applications such as mobile computing (emergency vehicles, delivery trucks), medical and retail/POS.		
DG-WAVESPEED-S	Digi Wavespeed/S Class 2 RS232 to Bluetooth Adapter (10 meter range)	259.00
RoHS Digi PortServer TS Series Device Servers		
The Digi PortServer TS family of device servers delivers standard serial-to-Ethernet connectivity simply and reliably. These robust device servers are ideal for applications requiring COM ports or where TCP/UDP Sockets, or UDP multicast functionality is required. These device servers include Digi's patented RealPort® COM port redirector technology, which makes it possible to establish a connection between the host and networked serial device by creating a local COM or TTY port on the host computer, allowing existing software applications to work without modification.		
DG-PSTS-4	Digi PortServer TS 4 RS232 RJ45 (10 Pin) Includes Power Supply	459.95
DG-PSTS-8	Digi PortServer TS 8 RS232 RJ45 (10 Pin) Includes Power Supply	925.95
DG-PSTS-16	Digi PortServer TS 16 RS232 RJ45 (10 Pin) Includes Power Supply	1139.95
RoHS Digi PortServer TS MEI and H Series Device Servers		
The Digi PortServer TS MEI (Multi-Electrical Interface, RS-232/422/485) makes it easy to connect any serial device to your network. These device servers combine the inherent benefits of data networking with proven asynchronous connectivity to deliver powerful, yet simple Ethernet connectivity for all your serial devices. The PortServer TS MEI series delivers universal and powerful features including data security via SSHv2, port buffering, and full SNMP management, making it ideal for applications such as console management where device management and monitoring are critical. PortServer TS H series features operating temps of -35° to 70° Celsius.		
DG-PSTSMEI-2	Digi PortServer TS MEI 2 RS232/422/485 RJ45 (10 Pin)	389.95
DG-PSTSMEI-4	Digi PortServer TS MEI 4 RS232/422/485 RJ45 (10 Pin)	489.95
DG-PSTSMEI-8	Digi PortServer TS MEI 8 RS232/422/485 RJ45 (10 Pin)	1039.95
DG-PSTSMEI-16	Digi PortServer TS MEI 16 RS232/422/485 RJ45 (10 Pin)	1419.95
DG-PSTS-H-2	Digi PortServer TS H 2 RS232/422/485 RJ45 (10 Pin)	499.95
DG-PSTS-H-4	Digi PortServer TS H 4 RS232/422/485 RJ45 (10 Pin)	649.95
DG-DIN-PS	DIN Rail Adapter for PortServer TS (MEI&H) 1,2,4 Port Units	24.95
RoHS Digi One SP 1 Port Device Server		
The Digi One SP serial server makes it easy to connect any device with a serial port to the Ethernet. The compact design of the Digi One SP delivers cost-effective performance and capability in one of the smallest form factors available. The Digi One SP delivers efficient serial-to-Ethernet connectivity and is ideal for applications where TCP Socket, UDP Socket, or UDP multicast functionality is needed.		
DG-SP	Digi One SP 1 Port Device Server	159.95
RoHS Digi CM Series Console Servers		
The Digi CM series console servers provide in-band or out-of-band console management of any network equipment with a serial console port. Remote out-of-band management is made easy for administrators, who can securely monitor and control servers, routers, switches, PBXs, firewalls and other network devices from anywhere on the corporate TCP/IP network, over the Internet, or through dial-up modem connections using Digi's best-in-class integrated web user interface. Digi CM is the first console server to provide a secure Graphical User Interface (GUI) for easy out-of-band management of Microsoft Windows Server 2003 systems. Its free KVM feature enables fast, low-bandwidth remote desktop access to perform application level tasks via RDP and VNC.		
DG-CM-8	Digi Console Server 8 Port RJ45 (8 pin) RS232 Ports	1499.00
DG-CM-16	Digi Console Server 16 Port RJ45 (8 pin) RS232 Ports	1799.00
DG-CM-32	Digi Console Server 32 Port RJ45 (8 pin) RS232 Ports	2599.00
DG-CM-48	Digi Console Server 48 Port RJ45 (8 pin) RS232 Ports	3699.00

WHEN
RELIABILITY
MATTERS™



Technical resources

Free tips, tutorials and downloads help you learn all about connectivity. Visit L-com.com/Resources



Item #	Description	List Price
Aboundi		
Electric Connect® from Aboundi is a solution designed to enable high speed Ethernet packets to traverse over many different transmission mediums: in-premise electrical wiring, extended distance for twisted pair wires and long distance coaxial cables. This 'versatile wiring' capability allows us the vast opportunities of solving many physical networking infrastructure connectivity deployment related problems cost effectively and spans across many market segments in applications.		
AEC1000-002-01	Aboundi Complete System-(2) Network Devices-US	280.00
AEC1000-002-02	Aboundi Complete System-(2) Network Devices-EU	280.00
AEC1000-002-03	Aboundi Complete System-(2) Network Devices-UK	280.00
AEC1000-004-01	Aboundi Complete System-(4) Network Devices-US	420.00
AEC1000-004-02	Aboundi Complete System-(4) Network Devices-EU	420.00
AEC1000-004-03	Aboundi Complete System-(4) Network Devices-UK	420.00
AEC1000-008-01	Aboundi Complete System-(8) Network Devices-US	700.00
AEC1000-008-02	Aboundi Complete System-(8) Network Devices-EU	700.00
AEC1000-008-03	Aboundi Complete System-(8) Network Devices-UK	700.00
AEC1000-012-01	Aboundi Complete System-(12) Network Devices-US	980.00
AEC1000-012-02	Aboundi Complete System-(12) Network Devices-EU	980.00
AEC1000-012-03	Aboundi Complete System-(12) Network Devices-UK	980.00

Aboundi RS232 to 802.11b Wireless Bridge

The Aboundi WLAN-ARS1000 dual RS232 Serial 802.11b WLAN Bridge easily brings wireless connectivity to any RS232 device via standards based 802.11b in an easy to configure and secure manner. The WLAN-ARS1000 enables remote accessibility for services and support to any legacy RS232 devices and eliminates cable interference and ground loops in addition to expanding operating distances beyond cabling limitations. Its external antenna design allows the use of a third party antenna for extended range and performance. The unit is easy to set up and supports multiple configuration choices through a Windows-based installation utility via either the WLAN, RS232 or USB port. The WLAN-ARS1000 Site Survey utility allows users to browse the available active access points for ease of connection in the network.

WLAN-ARS1000	Aboundi RS232 to 802.11b Wireless Bridge	299.00
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Aboundi RS232, RS422, RS485 to Ethernet Dual SerialBridge

The Aboundi ARS1200 Ethernet Dual SerialBridge provides connectivity to any RS232, RS422 or RS485 serial device via an Ethernet LAN in a simple and secure manner. The ARS1200 enables remote accessibility for services and support to any legacy serial devices within a wired Ethernet LAN environment. It is extremely easy to set up via web browser with password protection. Its flash-upgradeable firmware provides future ease of upgradeability support and services. The ARS1200 supports full and half-duplex transmission, software and hardware flow control, and has programmable baud rate to maximize application optimization.

ARS1200-001	Aboundi Ethernet Dual SerialBridge	169.71
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Aboundi Serial to Ethernet Fiber Optic Dual SerialBridge

The Aboundi ARS1300 Ethernet Optical Dual Fiber Dual SerialBridge provides connectivity between an Ethernet LAN and serial devices via Multimode or Single Mode fiber optic cabling. This product features one Fiber ST (or SC) interface that connects to an Ethernet LAN. The maximum fiber distance supported is 120Km (Single Mode fiber version). It is extremely easy to set up via web browser with password protection. Flash-upgradeable firmware provides future ease of upgradeability support and services. The ARS1300 supports full and half-duplex transmission, software and hardware flow control, and has programmable baud rate to maximize application optimization. Several Singlemode versions are available please call for details.

ARS1300-220C	Aboundi Ethernet Fiber Dual SerialBridge, SM SC, 20Km	424.29
ARS1300-220T	Aboundi Ethernet Fiber Dual SerialBridge, SM ST, 20Km	449.95

Aboundi WLAN Dual SerialBridge

The Aboundi ARS1120 802.11b wireless Dual SerialBridge easily brings a wireless connection to any serial device in a simple and secure manner. The ARS1120 has a broad range of networking functions utilizing TCP/IP and UDP/IP to provide serial tunneling. It is easy to set up using a secure web browser. Its flash-upgradeable firmware provides future upgradeability. Additionally, the ARS1120 Site Survey function allows users to browse the available active Access Points facilitating easy network connection. It also supports full mobility and seamless roaming from cell to cell. Its enhanced security features include 64 bit and 128 bit WEP (Wired Equivalent Privacy) encryption. Contact us today for large project volume pricing.

ARS1120-001	Aboundi WLAN Dual SerialBridge	235.71
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Aboundi ADK Series Mounting and Adapter Accessories

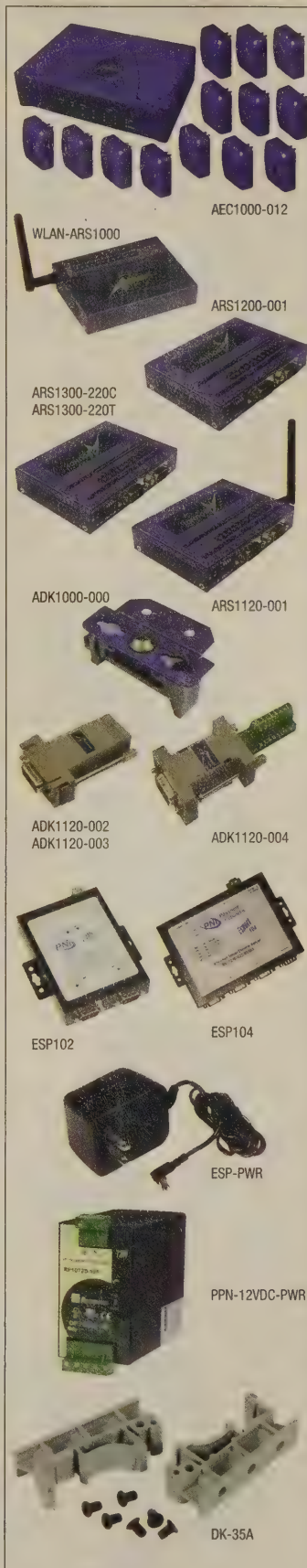
The Aboundi ADK series accessories consist of a DIN Rail mounting kit, which provides the ability of any Aboundi ARS SerialBridge device to be either wall or DIN Rail mounted and several adapters which convert RS232/422/485 wiring utilizing RJ45, DB9 and terminal strip interfaces. These products offer flexibility and versatility for your Aboundi network designs.

ADK1000-000	Aboundi DIN Rail Mounting Kit	10.00
ADK1120-002	Aboundi DB9 to RJ45/RS232 Adapter	34.29
ADK1120-003	Aboundi DB9 to RJ45/RS422/RS485 Adapter	34.29
ADK1120-004	Aboundi DB9 to Terminal Strip Adapter	34.29

Passport Networks ESport RS232/422/485 to Ethernet Device Servers

The ESport-10x Ethernet device servers connect RS-232, 422, 485 serial devices to a 10/100 Ethernet LAN/WAN providing a reliable communications connection. The ESport-10x Windows driver installs virtual COM ports in the Device Manager of the operating system. The ESP101 features one RS232/422/485 DB9M port and one RJ45 10/100 Ethernet port. The ESP102 features a single RJ45 10/100 Ethernet port and two DB9M ports, one port supports RS232/422 and 485 and the other only supports RS232. The ESP104 ships with its own external power supply (do not use the ESP-PWR power supply with the ESP104). These products can be powered by an external DC power supply or by an optional 9VDC power adapter. An optional DIN Rail mounting kit is sold separately. Includes a 1-year manufacturer's warranty.

ESP101	Passport Networks Single Port DB9 RS232/422/485 to RJ45 10/100 Device Server	125.00
ESP102	Passport Networks Dual Port DB9 RS232/422/485 to RJ45 10/100 Device Server	169.00
ESP104	Passport Networks Four Port DB9 RS232/422/485 to RJ45 10/100 Device Server	359.00
ESP-PWR	9VDC 500mA Power Adapter	10.00
PPN-12VDC-PWR	12V DC DIN Rail Power Supply	59.99
DK-35A	DIN Rail-mounting Kit (35 mm)	5.00





Cable Testing Explained

Cable testing and cable ratings are often not fully understood by those that purchase network grade patch cords and equipment. The type of testing performed and the frequency of that testing is the greatest factor in determining the cost of a cable that you purchase. Sometimes, patch cords that seem to be a good value may not be, due to the usage of low quality components and minimally compliant cable. An explanation of the four most common forms of testing conducted on patch cords can be found in the illustrations below. Each is explained so you can decide what best fits your application and budget. L-com strives to provide a full selection of cable assemblies for all our customers. To make selection simple, we group our cables into one of three different categories to identify the type of testing done. Certified cables require a test report produced for each assembly. Qualified cables are controlled on a lot basis and do not feature an individualized test report. Rated cables feature all category rated components but only a continuity test is performed. If you need help with your project just contact one of our experts today.



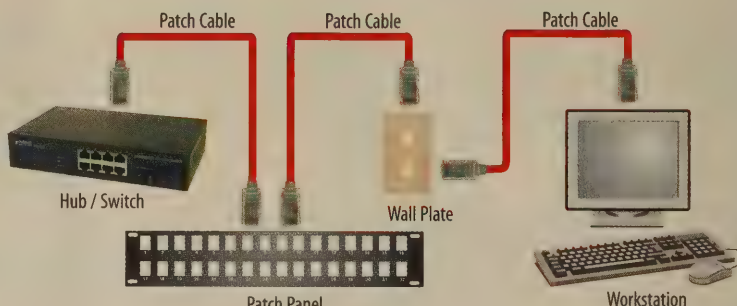
For more useful information go to....
www.L-com.com/Resources

Network Channel Testing

Network Channel Testing is a method used to verify performance from the workstation to the hub/switch including patch cords. Channel Testing is not accurate for individual patch cords. Both installers and IT professionals conduct this type of testing to insure that the entire cable system is capable of handling network traffic. Channel Testing differs from Permanent Link Testing in that it includes the patch cords on both ends of the installation. Often, patch cords are overlooked as the cause of network failures.

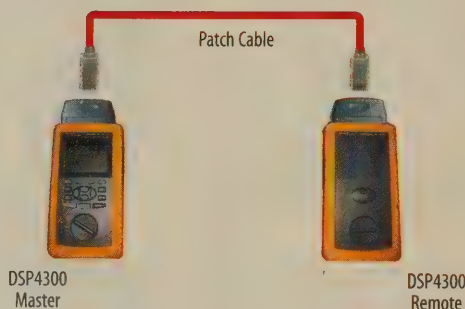
Link Testing Permanent

Permanent Link Testing is the preferred method used by installers to certify a cable installation at a customer site. This type of testing verifies the installation by measuring many factors such as cable lengths, NEXT, FEXT and Return Loss. Several certification testers exist on the market including Fluke Networks DSP4300 Series products. This type of tester features a Permanent Link adapter that connects from a workstation outlet to the telecom closet outlet.



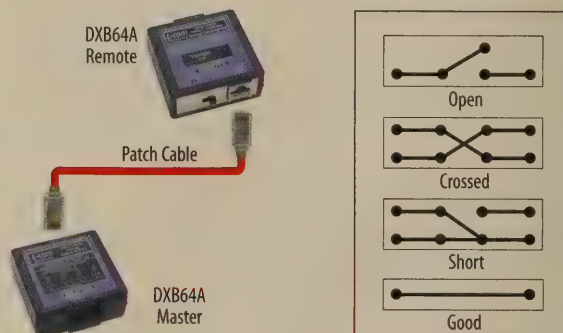
Patch Cord Certification Testing

Patch Cord Certification Testing is the best method to insure that the cables will meet all of TIA/EIA-568-B.2_ Standards for data transmission for Ethernet. The TIA/EIA-568-B.2_ Standard covers many details and requirements for cable quality and performance. This test involves the direct connection of patch cords to a certification tester such as the Fluke Networks DSP4300 Series. The tester will check many aspects of cable performance such as continuity, NEXT, FEXT, and Return Loss. This type of tester along with software provided by Fluke Networks can produce excellent reports for those requiring certification of their cable installation.



Continuity Testing

Continuity Testing is the most basic form of testing conducted on cables. These types of testers look for opens, shorts or crossed connections. For Ethernet, this type of testing does not confirm network transmission capability. The most common mistake in cable pin-out is an EIA568 A to B cross. A simple continuity tester such as L-com's DXB64A can easily find this error without the expense of a certification tester.



Cable Testing Terms

NEXT: Near End Cross Talk. A signal that crosses between twisted pairs or between conductors. NEXT is measured at the transmission end (near end). Measured in dB, failures for this measurement are often caused by termination problems.

FEXT: Far End Cross Talk. Crosstalk that is measured on the conductors that are not being used for transmission at the receiver or far end of the transmission. Measured in

dB, failures for this measurement are often caused by termination problems.

Propagation Delay Skew: Used to define the difference in signal speed between the fastest and slowest pair within a cable. It can also define the delay within an individual pair. Must be <45ns for a 4-pair horizontal cable.

Impedance: Measure of the total opposition a circuit offers to the flow of alternating current. Target impedance for UTP and

STP cable is 100 Ohms. This can be affected by the twist of the conductors along with the thickness of the insulation around the conductors. Return loss failures are often caused by cable impedance problems.

Return Loss: The ratio of reflected power to inserted power. It is the measure of the signal reflections occurring along a network cable system. It is often caused by imperfections in the cable conductors, impedance mismatches or bad contacts in a plug or jack.



Item #	Description	Code	List Price
DXB66 UTP, FTP and Coaxial Professional Test Set for LAN Cabling and Premise Wiring			
L-com's DXB66 Remote Cable Tester provides accurate testing of premise cabling and patch cords used in local area networks. The unit verifies pairing following the EIA/TIA568 standard. It also tests shield continuity of shielded RJ45 connectors which is required in European building installations and areas where noise is prevalent. BNC equipped, coaxial cabling such as Ethernet 10Base-2 can also be tested.			
- Sequencing LEDs verify continuity of 4 pair UTP/FTP cabling following EIA/TIA568 A or B pair designations (Ethernet 10Base-T, Token Ring and TP-PMD are all accounted for within the EIA568 code) - Tests for presence of shield in Foil Twisted Pair (FTP) or Token Ring - Shielded Twisted Pair (STP) cabling - Internal circuitry is fully protected against live cable damage - BNC coax test checks Ethernet 10Base-2 busses and patch cords (adapters are available for testing other coaxial terminations) - Dual colored LEDs identify shorted, open, or reversed pairs - Remote and master units separate for premise wire tests and reattach for patch cord checking - Convenient size with exclusive slide lock mechanism allows effortless patch cord and premise cable testing - Easy to operate with all instructions listed on the faceplate - Adapters available for testing Token Ring cabling utilizing Type A or B, DB9, or RJ45 connectors - Runs on one 9V alkaline battery (included) - Includes belt mountable soft leatherette case, 2 screened patch cords and informative instruction booklet			
DXB66	UTP, FTP and Coaxial Professional Test Set	A, C, D, E, F	34.95
DXB66-CC	Additional DXB66 Carrying Case with Beltstrap		12.95

Specifications:

Display	5 LEDs Master	Maximum cable length (4pr.)	tested to 1000 ft
	2 LEDs Remote	Over voltage protection level (max.)	30 V dc
Power	9V Alkaline battery	Allowable maximum current @ inputs	0.3 A dc
Current drain (on)	25 mA	Continuous withstand overvoltage rating	20.0 V dc @ 0.1 A
Normal power consumption	225 mW		for 5 seconds
Maximum power consumption	630 mW	Master & Remote dimensions connected	6.0 in x 2.3 in x 1.0 in
Minimum battery operation voltage	6.0Vdc	Master and Remote weight	6.0 oz.

DXB64A Triple Function Cable Tester - 10Base-T, Token Ring (RJ45) and EIA568

This easy-to-use sequential scan cable tester provides instant testing and identification of today's most popular UTP cabling schemes. Four, two-color LEDs verify continuity of up to four pairs while instantly detecting opens, shorts and miswires. Specially designed slide attachment allows tester's master and remote sections to be separated when checking installed wiring. Blinking light identifies power on and low battery. Small and light enough to fit neatly in a briefcase, toolbox or pocket. Equipped with 9V alkaline battery and protective leatherette case.

- Equipped with RJ45 jacks
- Tests 4 pair UTP cabling following EIA/TIA568A or B standards
- Master and remote units split apart for premise runs, then reattach for bench testing
- 4 dual polarity LEDs sequence from left to right identifying shorts, opens and miswires
- Supplied with one 9V Energizer alkaline battery and carrying case

DXB64A	EIA568 (RJ45) Remote Cable Tester	B, C, D, E, F	24.95
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DX45 Modular Patch Cord Tester - USOC RJ11/12/45

The DX45 modular patch cord tester quickly and easily tests the continuity of modular cables. Simply plug both cable ends into the unit and observe the indicators on the faceplate. Dual colored LED's verify if cabling is properly wired for data use (straight through pinning) versus telephone use (crossed pinning). Additionally, the DX45 identifies Opens in a cable. The DX45 is intended for cabling terminated with 8 position modular plugs (RJ45), and 6 position modular plugs (RJ12/11) using the included inserts. The DX45 is powered by a single 9V alkaline battery already installed for instant use. Outside dimensions: 3.8" x 2.4" x 1.1". Features a 1-year manufacturer's warranty.

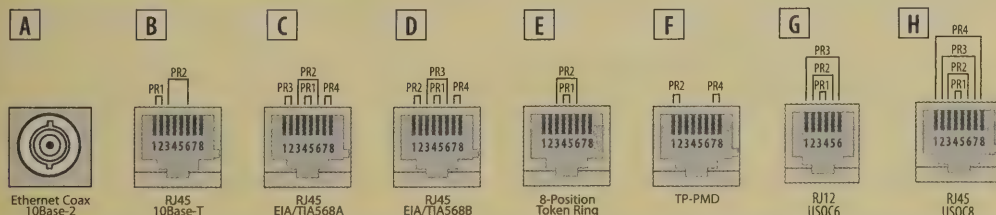
DX45	8 Position Modular Patch Cord Tester (RJ45) with Inserts	G, H	22.95
DXBCC	Carrying Case for DX Testers		3.99

DXR45S Shielded RJ45 Breakout Box - Exclusively Designed and Manufactured by L-com

L-com's DXR45S breakout box is intended for modifying the wiring in modular cords terminated by RJ45 plugs. The unit incorporates two high grade shielded RJ45 jacks, a nine position dip switch and dual nine position headers. Jumper wires are included in the rear compartment. This unit does not utilize a battery, its intention is for modifying modular cable wiring only.

DXR45S	Shielded RJ45 Breakout Box		19.95
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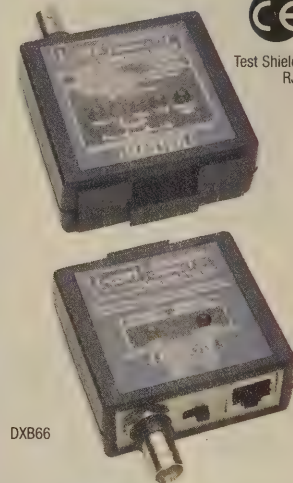
Distributors Wanted - Call 1-800-343-1455

Code shows tester ability to check:**See The Video**

www.L-com.com/Videos/A07



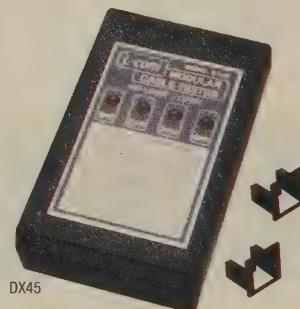
Test Shielded RJ45



DXB66



DXB64A



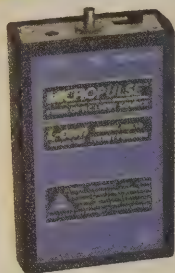
DX45



DXR45S

"Andrea was a tremendous help to me yesterday, and was very patient and informative. A real pleasure to work with someone competent like her! I'll definitely return when I need more hardware like this." - Jim Hilton, Maximus Coffee Group, LP

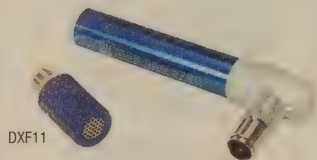
L-com Exclusive



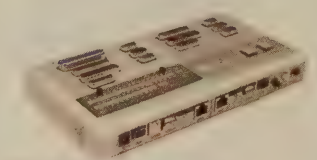
DXL10



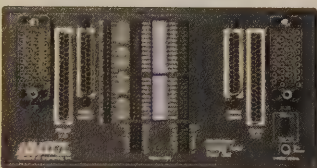
DXL10K1 Kit



DXF11



MULTI-TEST



UMATS



EC-LMTJ

Item #	Description	List Price
DXL10	MICROPULSE™ Fiber Optic Light Source - Simple Location of Fiber Runs This unit eases the difficulty of tracing fiber optic cable runs within a building by using new MICROPULSE technology. Presently, to trace multimode terminated fiber runs, two types of equipment can be used. The first, a laser source, is expensive and potentially dangerous to one's eyesight if viewed directly. These units work well for locating breaks in fiber runs, however, the cost of the units often exceed \$500. The second method is to use an incandescent light source (simple flashlight) with a coupler to connect to the fiber optic termination. These devices produce a low intensity light signal which is difficult to see by the human eye at the far end of the run. L-com's solution to this problem was simple: Produce a low cost, high intensity light source that is safe to use and easy for the eye to locate. This was done by creating exclusive circuitry that produces an extremely bright red light source which is focused into the fiber optic cable. The light is then pulsed in an on-off manner that is easier for the human eye to locate, especially from a group of fiber runs commonly found in wiring closets or central wiring points. A multi-use coupler is also utilized so that connection to ST, SC, FC, RSD and FSD can be done without additional coupling adapters or cables. • Ultra High Intensity Red Source LED (660nm, 1400 mcd) • Exclusive MICROPULSE Signal Pulse Technology (Patent Pending) • Multi-Use Coupler Accepts Fiber Connectors with 2.5mm Ferrule • Dual Output - Pulsed or Steady Light Signal • Runs on One 9V Alkaline Battery (Included)	19.95

Micropulse™ Fiber Optic Light Source Kit - Everything for Tracing Multimode Runs

We now offer in kit form our popular Micropulse Fiber Optic Light Source with common adapters used in identifying fiber optic runs. Included in the kit is the DXL10 Micropulse light source, 2 ST-ST simplex couplers, 1 FC-FC simplex coupler, 1 SC-SC duplex coupler, 1 SC-ST duplex adapter and 1 simplex ST-SC multimode patch cord. Also included is a plastic box for organizing the couplers and a belt mountable carrying case.

DXL10K1	MICROPULSE Fiber Optic Light Source Kit	69.00
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F Type Pocket Toner - Great for Checking Household Coaxial Cabling Runs

This Pocket Toner is an extremely handy instrument for identifying and testing coaxial cables terminated with Type F connectors such as those used for cable TV. Ruggedly built, the toner base unscrews creating a remote unit that emits a tone when plugged into the far end of the cable run. Other features include, a bi-colored LED, which indicates 50-75 Ohm termination and a power switch, which prevents accidental battery drain. Uses 1 standard AAA battery for extra-long life and easy replacement. Features a 1-year warranty.

DXF11	Type F Pocket Toner	34.95
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PC Cable Tester Pro ATA

This flexible cable tester will identify opens, shorts, miswiring and continuity on almost all popular PC cable types! The PC cable tester pro ATA can test the following cable types; DB25 (M/F), DB9 (M/F), HDB15 (M/F), DB15 (M/F), BNC (F), RJ45, Centronics 36 (F), USB (A and B), ATA and Firewire. This tester is a must for installers and IT professionals in any industry. Order today!

MULTI-TEST	PC Cable Tester Pro ATA	139.00
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V.35 Universal Modify and Test Set

The Universal Modify And Test Set (UMATS) is the ultimate tool for the data communication specialist or engineer's tool bag. The UMATS can be battery or line powered and supports most current WAN communication interface standards. More than just a breakout box, a bank of level shifters allows converting between any pair of interfaces: V.35 can be converted to RS232, RS422 to RS232, or RS530 to V.35, etc. Each level shifter is also connected to a tri-state LED to allow convenient monitoring of signals levels.

- Used to test and troubleshoot cable assemblies
- Tri-State LEDs provide at a glance monitoring of four balanced and four unbalanced signals
- Lightweight hand held design is great for portable applications
- Comprehensive interface design allows for testing of today's most popular WAN interfaces
- Warranty: Returns may be accepted in the first 30 days. After 30 days returns must be handled by the manufacturer.

UMATS	V.35 Universal Modify and Test Set	599.00
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Item #	Description	1-9	10-24	25-99	100-249	250-499
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Inline Tester, RJ12(6X6) M-F with Test LED's and Contact Points

Use with 2 or 3 pair, RJ11/12 lines. Copper contacts have an angled edge to prevent alligator clips from falling off. Wire color coded for easy identification. Three 2-color LEDs identify activity. Complete with modular jack on the end.

- Network installations
- Cable maintenance and inspection
- Field testing

EC-LMTJ	Test Adapter, 3 Pair Modular	9.95	9.15	8.36	7.56	6.77
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Item #	Description	List Price
AEMC CA7024 TDR Fault Mapper		
The AEMC Fault Mapper is a hand-held, alpha-numeric, TDR (Time Domain Reflectometer) Cable Length Meter and Fault Locator, designed to measure the length of electrical and communication cables. It can also indicate the distance to a fault in the cable (open or short), given access to only one end of a two or more conductor cable. By incorporating fast-edge step TDR technology, the CA7024 measures cable length and indicates the distance to open or short circuit faults to a range of 6000 ft (2000m), on virtually any type of cable. The CA7024 indicates the cable length or fault distance and description alpha-numerically on a 128 x 64 graphical LCD. Includes soft carrying case, BNC pigtail cable with alligator clips, four 1.5V AA batteries and user manual.		
AEMC-CA7024	TDR Fault Mapper	495.00

AEMC CA7026 Fault Mapper Pro Tele/Coax/Parallel Cable Tester

The Fault Mapper Pro is a hand-held graphical TDR (Time Domain Reflectometer) designed for identifying and locating faults on power and communication cables, given access to one end only. The CA7026 measures cable length and indicates the distance to fault cables and terminations to a range of 11,700 ft (3500m) on virtually any type of cable of two or more conductors. The CA7026 shows a reflection profile of the cable under test as an oscilloscope-like trace on a 128 x 64 pixel graphical LCD. A movable cursor can be aligned with points on the trace; the distances displayed will automatically update the cursor position. Includes soft carrying case, BNC pigtail cable with alligator clips, four 1.5V AA batteries and user manual.

AEMC-CA7026	Fault Mapper Pro Tele / Coax / Parallel Cable Tester	795.00
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AEMC CA7028 Wire Mapper Pro LAN Cable Tester

The Wire Mapper Pro is a hand-held structured cable mapping and troubleshooting tester designed for use on UTP, STP, FTP and SSTP cabling equipped with RJ45 connectors and wired to either TIA568A/B (ISO 11801 and EN 50137), USOC or ISDN specifications. It detects open circuit pairs, shorts, crossed wires, crossed pairs, reversed pairs, split pairs and shield faults. The CA7028 has the ability to measure and indicate the length of the cable under test, using a Vp (Velocity of Propagation) set by the user, from a built-in library or manually. It will measure and report the length of all four pairs of wires in the cable under test. It also generates an audible tone that is transmitted into all four pairs on the cable under test. Includes soft carrying case, remote ID (#1), two patch cords, four 1.5V AA batteries and user manual.

AEMC-CA7028	Wire Mapper Pro LAN Cable Tester	495.00
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Fluke Networks MicroMapper™ Network Tester

The MicroMapper quickly and easily tests twisted pair cabling, giving you visibility of opens, shorts, crossed, reversed and split pairs. Just push the TEST button and MicroMapper will automatically scan all wire pairs for any existing faults in your cable. MicroMapper's built-in tone generator works with the IntelliTone Probe allowing you to trace cable through walls, floors, and ceilings. The MicroMapper also includes a remote unit that allows one person to test installed cabling or patch cords. The MicroMapper kit includes: MicroMapper and MicroMapper Remote, patch cable, 6-volt alkaline battery and user guide.

FNMT8200-49A	Fluke Networks MicroMapper Network Tester	139.00
FNMT8200-53A	Fluke IntelliTone 100 Probe	89.00

Fluke Networks IntelliTone 100 Toner and Probe Kit

The Fluke Networks IntelliTone 100 Toner and Probe Kit allows users to quickly identify network ports and cables using digital signaling methods. Simply attach the IntelliTone Toner to a cable and set the sensing mode on the IntelliTone Probe. IntelliTone technology energizes cable conductors with a smart, synchronized digital signal. Multiple tone types occur in the signal that help you to locate, isolate and validate a cable. Includes: IntelliTone 100 Toner and 100 Probe, coax F connector adapter, RJ11 and RJ45 patch cables, test leads with alligator clips, lanyards, owners CD and quick start guide, (2) 9 volt batteries.

FNMT8200-50A	Fluke Networks IntelliTone 100 Toner and Probe Kit	159.00
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Fluke Networks NetTool™ Inline Network Tester

Fluke Networks NetTool Inline Network Tester comes packed with the features IT professionals need. The NetTool can be connected inline between two network devices, listen to the traffic between them and detect common connectivity problems. The NetTool can also automatically ping key devices to verify connection to routers, servers and printers. Users will be able to spot available network resources by seeing MAC and IP addresses, subnet and services offered by active servers, routers and printers. The NetTool Tester can also look for the common wiring problems by testing for cable length, shorts, split pairs or opens, including pin-to-pin wiremap. Users will be able to download test results to document network performance and generate network resource reports. Includes 4 AA batteries and a 1-year manufacturer's warranty.

FNT-PRO	Fluke Networks NetTool Inline Network Tester	2100.00
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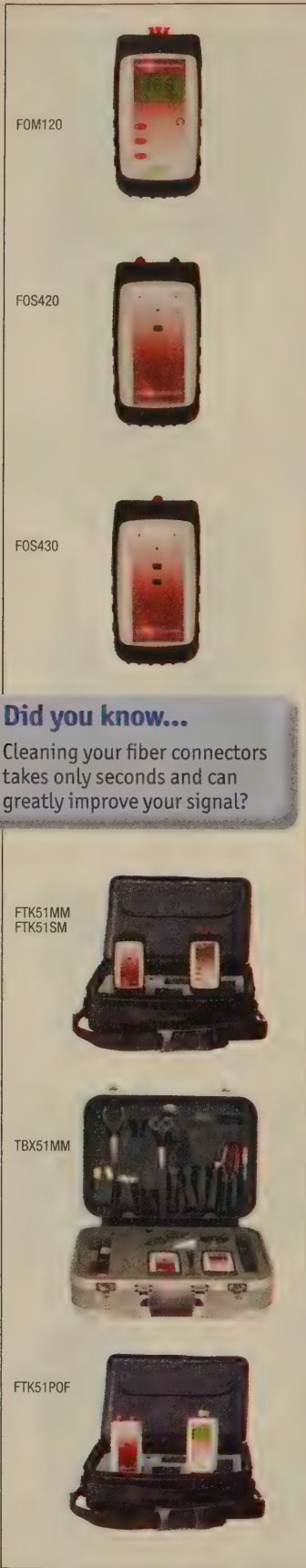
Fluke Networks MicroScanner2 Cable Verifier

The MicroScanner2 Cable Verifier presents a revolutionary change in voice, data and video cable testing. It starts by taking results from what was four different test modes and displaying them all at once - graphical wiremap, pair lengths, distance to fault, cable ID and far end device. What's more, its integrated RJ11, RJ45 and coax test ports support virtually any type of low-voltage cable testing with no need for awkward adapters. The end result is reduced test time and technician error. That makes high-quality installations more efficient than ever.

MICROSCANNER2	Fluke Networks Cable Verifier	499.00
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**We answer your technical questions**

See a complete list of frequently asked questions at
L-com.com/FAQS



Did you know...

Cleaning your fiber connectors takes only seconds and can greatly improve your signal?

Item #	Description	List Price
FOM120	Fiber Optic Power Meter for Multimode and Single mode Cabling The FOM120 is a general-purpose power meter suitable for both premise and outside plant applications. This unit is ideal for measurement of optical power and optical loss/attenuations in a fiber optic network. The FOM120 meter is calibrated at the four most common industry standard wavelengths 850nm, 1300nm, 1310nm and 1550nm for both single mode and multimode transmitters. The 1mm Germanium detector offers a broad dynamic range of ~60dB which far exceeds the requirements of the majority of users. The FOM120 utilizes a 2.5mm universal connector for both ST and SC connections (other connector styles available upon request). The compact handheld meter (4.94" x 2.75" x 1.2") has an auto-shutdown feature to preserve battery life. Runs on 2AA batteries and includes a 1-year manufacturer's warranty.	
FOM120	Fiber Optic Power Meter for Multimode and Single mode Cabling	495.00
FOS420	Fiber Source for 850/1300nm Fiber Optic Cables The FOS420 light source is for premises and campus cabling networks with multimode fiber, or single mode fibers under 5km. The ST connector outputs can be adapted to any cable plant with hybrid adapters or hybrid cables. The FOS420 becomes a powerful low cost troubleshooting and maintenance tool when used with an Advanced Fiber Solutions FOM120 power meter.	
FOS420	Fiber Source for 850/1300nm Fiber Optic Cables	595.00
FOS430	Fiber Source for 1310/1550nm Fiber Optic Cables The FOS430 laser source is designed for testing single mode fiber cabling in premise or outside plant environments where long wavelengths are used. The single output allows the user to test at both 1310nm and 1550nm without disconnecting and reconnecting the cable. When used with an Advanced Fiber Solutions FOM120 or FOM220 the FOS430 is ideal for testing insertion loss for single mode fiber optic cables and connectors. Lightweight, ergonomic design is great for field use.	
FOS430	Fiber Source for 1310/1550nm Fiber Optic Cables	1495.00



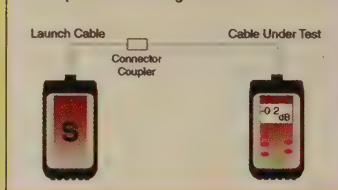
Common test methods

Setting 0 dB Loss Reference for Testing



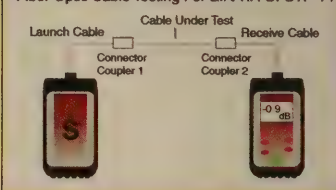
1. Attach Launch Cable to the output of the source and input of the meter.
2. Make sure the output power level from the source is over -30 dBm.
3. With meter in "dB" mode, hit the zero reference key. When the meter zeros out as illustrated in the above setup, the launch reference power has been stored and the user is now ready to start testing cables.
4. Once the zero reference power has been set, do not remove the Launch Cable from the source as reattaching it may change the output power level.

Fiber Optic Cable Testing Per EIA/TIA FOTP-171



1. Attach the Cable Under Test to Launch Cable via the Connector Coupler.
2. Attach the other end of the cable to the meter and read the value.
3. The indicated value on the display will be the loss of the mated connector of the Cable Under Test (CUT) and the actual test cable itself. To test the other connector on the test cable simply reverse the CUT test and read the loss from the power meter.

Fiber Optic Cable Testing Per EIA/TIA OFSTP-14



1. A loss reading for the Receive Cable should already be established by doing a single ended test on it as specified in the FOPT-171 illustration. The loss of the Receive Cable should be added on to the loss of the Cable Under Test (CUT) when the test is completed or zeroed out before the CUT is placed between it and the Launch Cable.
2. Attach the Cable Under Test to the Launch Cable via Connector Coupler 1.
3. Attach the other end of the Cable Under Test to the Receive Cable via Connector Coupler 2.
4. The power indicated on the meter is the loss of the Cable Under Test.

Multimode Fiber Optic Test Kit

The FTK51MM multimode fiber optic test kit allows users to quickly test multimode fiber cabling. The kit features a power meter and light source in a convenient carry case. The power meter supports 850/1300/1310/1550nm light sources and features a 2.5mm universal connector for both ST and SC connections (other connector styles available upon request). The kit's power meter is calibrated at the four most common industry standard wavelengths 850nm, 1300nm, 1310nm and 1550nm for both single mode and multimode transmitters. The 1mm Germanium detector offers a broad dynamic range of ~60dB which far exceeds the requirements of the majority of users.

FTK51MM Multimode Fiber Optic Test Kit

1095.00

Single mode Fiber Optic Test Kit

The FTK51SM single mode fiber optic test kit features a fiber optic power meter and light source to quickly and economically test 9/125 single mode fiber cabling. The power meter supports 850/1300/1310/1550nm light sources and features ST, SC, FC, 2.5mm Universal, LC and 1.25mm Universal connection options. The 2 mm Germanium detector offers a broad dynamic range of ~60dB which far exceeds the requirements for most applications. The kit's power source supports both 1310nm and 1550nm laser sources for single mode cable testing. Includes a convenient carrying case.

FTK51SM Single mode Fiber Optic Test Kit

1990.00

Fiber Optic Test Kit with Power Meter, Light Source and Tool Kit

The TBX51MM features the OS420 light source for use with premises and campus cabling networks that utilize multimode fiber, or single mode fibers under 5km. The ST connector outputs can be adapted to any cable plant with hybrid adapters or hybrid cables. The OS420 becomes a powerful low cost troubleshooting and maintenance tool when used with an Advanced Fiber Solutions OM120 (included with this kit) or OM220. Tool kit includes: Safety glasses, sapphire scribe, armored tubing cutters, Kevlar scissors, needle nose pliers, rotary cable stripper, fiber optic stripper, buffer tube stripper, crimp tool, tweezers, polishing puck, polishing plate, continuity tester and a 100x microscope. This kit contains everything you need to test and repair multimode and single mode fiber cables.

TBX51MM Fiber Optic Test Kit W/ Power Meter, Light Source and Tool Kit

1695.00

Plastic Optical Fiber (POF) Test Kit

The Advanced Fiber Solutions POF test kit is the perfect, portable solution for testing both plastic and glass optical fiber cables. The FTK51POF includes the OM110 power meter, which is designed for POF (plastic optical fiber) and short wavelength applications (visible and near infrared). The OM110 optimizes a silicon detector suitable for large core fibers. It is the ideal tool for working with shorter wavelengths used with glass, plastic or multimode fibers. Additionally, the FTK51POF features the OS417-MD source which houses a 665nm LED in a modular adapter, which makes it adaptable to any connector style. Order this versatile test kit today!

FTK51POF Plastic Optical Fiber Test Kit

899.00

"No matter how small the order or how complicated the problem, I have always received the best service possible. I am very comfortable in requesting something new to L-com. They always do the best job to satisfy the customer." - Diane D.

Item #	Description	List Price
 RoHS Brady TLS2200™ Premium Thermal Transfer Label Printer		
The TLS2200 system offers the lightweight of a hand-held printer (2.75lbs), while providing the superior capabilities of thermal transfer printing. The Brady printer features a two-line liquid crystal display and produces smear proof, ultra clear print quality and faster output than most other printers on the market. Useful for printing barcodes as well as text and numbers with crystal clear accuracy on labels up to 2 inches wide. This means you can now print labels for wire markers, patch panels, circuit boards, cable markers and more, faster and easier than ever before. Includes a 6-month manufacturer's warranty.		
TLS2200	Premium Brady Thermal Transfer Printer	849.00
R6210	Replacement Ribbon for TLS2200	23.95
TLS2200-BP	Replacement Battery	95.00

 RoHS Brady IDXPERT Handheld Labeling System

The IDXPERT is the first handheld cartridge based labeling system that can print die-cut labels, self-laminating labels and sleeves as well as continuous tapes...You name it IDXPERT prints it! Choose from two keyboard layouts, then select from a wide range of label materials engineered just for your application. That includes wire and cable markers, panel, rack and frame ID, facilities labels and specialty labels for labs and workspaces. The IDXPERT can be used with self-lams, sleeves and 90+ label styles including continuous tapes. Additionally, the IDXPERT can print on materials up to 1.5" wide and prints characters up to 1.25". It also provides 82 symbols plus bar codes.

IDXPERT-ABC	Brady IDXPERT Handheld Labeling System (ABC Layout)	399.95
IDXPERT-KEY	Brady IDXPERT Handheld Labeling System (Keyboard Layout)	399.95

 RoHS Brady IDPAL™ Thermal Printer

Brady IDPAL hand-held labeling tool offers electrical installers an unbeatable combination - superior labels designed for outstanding adherence to round and curved surfaces - at an affordable price. Weighing only 1.2 lbs. fully loaded (cartridge and batteries), it fits comfortably in the hand, features all the standard electrical symbols and is easy to use. The label cartridge is top-loaded. Built-in intelligence senses tape size and automatically formats the label. A choice of performance tested labeling materials, label widths and lengths and fonts ensures a good match with a variety of applications. It's the ideal tool for wire and cable marking, component marking and general identification. Includes a 6-month manufacturer's warranty.

IDPAL	Brady Thermal Printer	99.00
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Item #	Description	Labels per Roll	1-9	10-24	25-99	100-249	250-499
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Brady Roll, Cartridge and Wraparound Cable Labels

Brady cable labels are made from durable, high quality vinyl and can be used in any cable labeling application. Please refer to the label dimensions sizing chart located on the bottom right hand side of this page.

 RoHS Cable Labels for TLS2200 are Available in a Variety of Sizes

PTL19427	Cable Labels, 1.0"L x 1.0"W x .375"H	250	29.95	29.35	28.75	28.15	27.55
PTL31427	Cable Labels, 1.0"L x 1.5"W x .50"H	250	39.95	39.15	38.35	37.55	36.75
PTL21427	Cable Labels, 1.0"L x 2.5"W x .75"H	100	24.95	24.45	23.95	23.45	22.95

Note: Many other label types available, call your L-com Sales Representative for free Brady Literature.

 RoHS Brady IDXPERT Voice/Data Cable Markers

These labels are ideal for marking data cabling. The B-427 vinyl self-laminating material offers superior abrasion resistance and resists dirt, oils, solvents and water. Each label features a clear, non-printed area, which wraps around and over laminates the printed text. The IDXPERT automatically "multiple repeats" your text in the white print area. These labels are UL Recognized and support a temperature range of -94°F to 158°F (-70°C to 70°C).

XSL-102-427	Vinyl Labels, 0.50"L x 1.25"W x 0.375"H	250	27.95	27.39	26.83	26.27	25.71
XSL-103-427	Vinyl Labels, 1.00"L x 1.25"W x 0.50"H	250	44.95	44.05	43.15	42.25	41.35
XSL-115-427	Vinyl Labels, 1.50"L x 1.25"W x 0.50"H	250	39.95	39.15	38.35	37.55	36.75
XSL-29-427	Vinyl Labels, 0.50"L x 1.25"W x 0.50"H	500	49.95	48.95	47.95	46.95	45.95
XSL-30-427	Vinyl Labels, 0.75"L x 1.25"W x 0.50"H	250	37.95	37.19	36.43	35.67	34.91

Note: Many other label types available, call your L-com Sales Representative for free Brady Literature.

 RoHS Cable Labels for the IDPAL

PAL375439	Label Cartridge, 21"L x .375"W	N.A.	18.00	17.64	17.28	16.92	16.56
PAL500439	Label Cartridge, 21"L x .50"W	N.A.	18.00	17.64	17.28	16.92	16.56
PAL750439	Label Cartridge, 21"L x .75"W	N.A.	21.00	20.58	20.16	19.74	19.32

 RoHS Cable Labels - Wraparound Style, 3 Sizes to Choose From

CL0515	Cable Labels, .50"L x 1.5"W x .50"H	30	5.95	5.83	5.71	5.59	5.47
CL1150	Cable Labels, 1.0"L x 1.5"W x .50"H	30	7.95	7.79	7.63	7.47	7.31
CL1375	Cable Labels, 1.0"L x 3.75"W x 1.0"H	30	5.95	5.83	5.71	5.59	5.47

Note: CL Series labels are not intended for use with Brady printers.

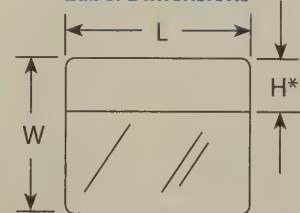
 **Tip** *What size cable label is appropriate for the cable that I am using?*

CROSS SECTION	IF YOU HAVE:	THEN USE:
	8 conductor flat silver satin	PTL19427 or CL0515
	Duplex fiber cord (zipcord)	PTL19427 or CL0515
	RG59 coaxial cable	PTL31427, CL0515 or CL1150
	Cat. 5/5E/6 4 pair twisted pair	PTL31427, XSL Series, CL0515 or CL1150
	Category 3 25 pair	PTL21427, CL0515, CL1150 or CL1375



Labels wrap around cable for easy identification.

Label Dimensions



*Note: Height refers to printable area

Custom Product Assistant

Did you know about our Custom Design and Manufacturing Capabilities?

This page contains some of the most common component information that we use in custom cable assemblies. Use it in conjunction with the fax form at the right to design the exact products you need, or try our online Product Finders at www.L-com.com for additional help in finding cable assemblies, connectors, adapters and more.



Coaxial Cable Assemblies



Connectors 1.0/2.3 1.6/5.6 BNC F FME MCX MMCX Mini UHF N RCA SMA SMB TNC Twinaxial Twin BNC UHF	Cable Types RG58C/U 50 Ohm RG6 75 Ohm RG142B/U RG174/U 50 Ohm RG188A/U 50 Ohm RG316/U 50 Ohm RG58 (Thin Ethernet) RG213 RG6 Quadshield 75 Ohm RG59A/U 75 Ohm RG59B/U 75 Ohm RG62A/U 93 Ohm C734/735 (75 Ohm Digital) C1505A/1506A (75 Ohm Digital)	Special Requirements Plenum Jacket Cable Labels Angled Connectors
Connector Gender Male or Female Reverse Polarization	See page 147 for additional cable information.	



Modular Cable Assemblies



Connectors 4x4 Handset 6x4 RJ11 6x6 RJ12 6x6 Offset MMJ 8x8 RJ45 10x10 Shielded 6x4 RJ11 Shielded 6x6 RJ12 Shielded 8x8 RJ45 Shielded 10x10	Cable Type Silver Satin 4 Conductor Silver Satin 6 Conductor Silver Satin 8 Conductor Silver Satin 10 Conductor Cat. 5 with Shield 2 Pair (4 Conductor) Cat. 5 with Shield 4 Pair (8 Conductor) Category 5E 4 Pair (8 Conductor) Cat. 5E with Shield 4 Pair (8 Conductor) Cat. 5E Hi-Flex Shielded 4 Pair Category 6 with 4 Pair (8 Conductor)	Wire Type Solid Conductor 24 AWG Stranded Conductor 24 AWG Note: 26 AWG is commonly used with shielded Category 5 cable.	Special Requirements Plenum Jacket Zero Halogen Jacket Cable Labels Outdoor
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D-Sub Cable Assemblies (Data / Video)



Connectors Standard Types 13W3 9 Pin D-Sub 15 Pin D-Sub 25 Pin D-Sub 37 Pin D-Sub 50 Pin D-Sub DVI-A DVI-D DVI-I High Density HD 15 Pin D-Sub HD 26 Pin D-Sub HD 44 Pin D-Sub HD 62 Pin D-Sub HD 78 Pin D-Sub	Backshell Molded with No Shield Molded with Foil Shield Molded with Steel Shield Assembled Plastic Assembled Metalized Plastic Assembled Metal Right Angle Hood Waterproof D-Sub Note: There is usually a 50 to 100 piece minimum run for molded assemblies.	Wire Type 24 AWG Stranded 26 AWG Stranded 28 AWG Stranded Multiconductor/Coax Other Straight conductors or twisted pairs.	Shielding Type Unshielded Foil Shield Braided Shield Foil + Braided Shield Special Requirements High Temperature Jackets Low Smoke Zero Halogen Jackets Plenum Jackets Cable Labels Coaxial Lines for Video/Monitor Cables
Connector Gender Male or Female Reverse Hardware			



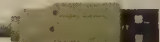
Fiber Optic Cable Assemblies



Connectors FC LC MT-RJ MU SC ST	Connector Polish (Loss Requirements) PC Ultra PC 8° Angled (Singlemode) <-40db Back Reflection <-50db Back Reflection <-60db Back Reflection	Core Size 8-9µm, Singlemode 50µm, Multimode 62.5µm, Multimode Mode Conditioning 50µm Laser Optimized for 10Gig	Cable Type Simplex Duplex (zipcord) Breakout Distribution Armored Messenger	Special Requirements Plenum Jacket Zero Halogen Jacket Cable Labels Pulling Eye
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Other Cable Assemblies



Connectors AUI Centronics 36 DIN 5 DIN 6 DIN 8 EVC Fibre Channel IEEE-1394 4 Contact IEEE-1394 6 Contact M/F IEEE-1394 6 Contact Male Latching IEEE-1394b IEEE-488 GPIB Mini DIN 4 Mini DIN 6 Mini DIN 8 SATA Standard and Latching SCSI-1 CN50 SCSI-2 HPDB50 SCSI-3 HPDB63 Serial ATA Telco 50 Type B Data Connector Ultra SCSI .8mm USB Mini B Flying Leads USB Right Angle USB Type A M/F USB Type B V.35	Backshell Molded with No Shield Molded with Foil Shield Molded with Steel Shield Assembled Plastic Assembled Metalized Plastic Assembled Metal Note: There is usually a 50 to 100 piece minimum run for molded assemblies.	Wire Type 24 AWG Stranded 26 AWG Stranded 28 AWG Stranded Other Note: Assemblies can use straight conductors or twisted pairs.	Shielding Type Unshielded Foil Shield Braided Shield Foil + Braided Shield Special Requirements Plenum Jackets Cable Labels Coaxial Lines for Video/Monitor Cables High Temperature Jackets Low Smoke Zero Halogen Jackets
Connector Gender Male or Female			

Do you need custom cable assemblies, adapters or other specified products?

L-com has over 25 years of experience designing and building custom connectivity products. Our manufacturing facilities in the U.S. and China can build just about every type of copper or fiber cable assembly as well as custom connectors and adapters. These are a few of the many jobs we have done for our customers:

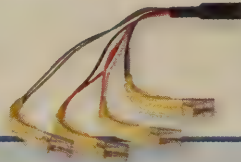
A customer needed help selecting the proper wire and terminals for a wire harness application.

L-com designed a harness with a 5 position high capacity plug, 14 and 20 AWG wires plus a terminal ring tongue to complete the job.



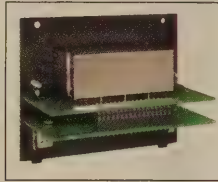
A customer needed a cable assembly built quickly to connect multiple computers used to test PCB manufacturing processes.

L-com designed a fiber optic MTP to LC breakout cable assembly so the manufacturing process could succeed on schedule.



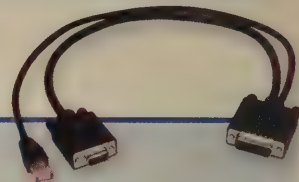
A customer needed to consolidate connections on a balun rack panel system.

L-com designed a compact module which fit into a balun rack frame that the customer was already using. This design not only saved space, it reduced the amount of cable required and allowed an easy retrofit to existing installations.



A customer needed a more reliable D-Sub cable assembly than they were receiving from a competitor.

L-com's molded backshell design on all three connectors solved those issues, saved money on unit cost and eliminated failures in the field.



L-com's Certifications

ISO 9001: 2000

GSA Contract Holder
#GS-35F-0174S

- Processed Wire
- Computer Interconnection Cable Assemblies
- Repackaged Electrical Construction Equipment

A complete company documentation package is available for download at L-com.com/Profile

L-com's Design Process

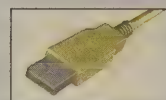
Step 1 - Concept

Provide us with the requirements of your project, from a rough sketch to a detailed drawing. Our technical staff will review the project, consult with you, and provide a quotation within 24 hours in most cases.



Step 2 - Design

Once an order is placed, we'll generate an engineering drawing and/or a 3D rendering of your custom assembly and e-mail it to you for approval.



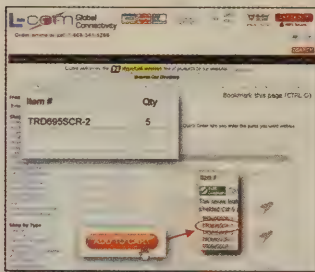
Step 3 - Production

Once the drawing has been approved, production will begin in one of our facilities. We can produce quantities as low as 1 piece and as high as 100,000 pieces with very short lead times.



Have you visited L-com.com lately?

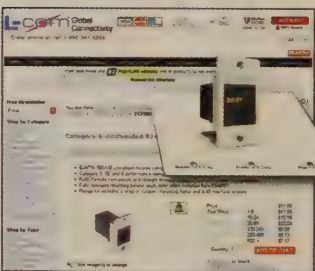
The L-com website is constantly being enhanced to provide you with the most comprehensive and current information on connectivity products anywhere.



Catalog Quick Order

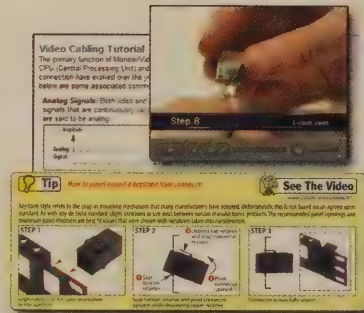
It's easy to order catalog items online. Just type in an item number, along with the desired quantity, and click "Add To Cart".

L-com.com/QuickOrder



Product Details

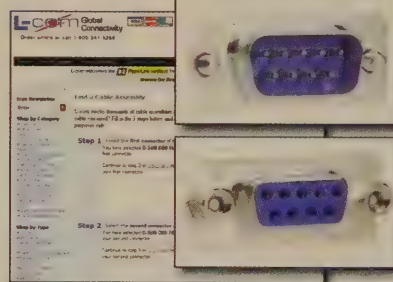
Product detail pages provide real time inventory information, RoHS Status, Engineering Drawings, CAD models and more.



Technical Resources

Free videos, tips, and tutorials help you learn all about connectivity.

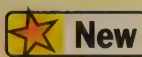
L-com.com/Resources



Find Products Fast

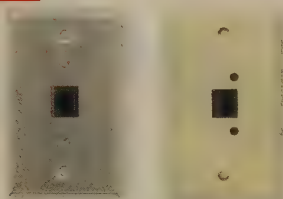
Product wizards make finding products quick and easy. You can view close up detail of all connector interfaces.

L-com.com/ProductWizards



The items below represent only a small portion of L-com's new products. Look for the New icon throughout the catalog to see more or go to L-com.com/NewProducts.

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Surge Protection Wall Plates
for 10/100 and 10/100/1000
applications
Item # 6000693-L

Starting at
\$99⁹⁹

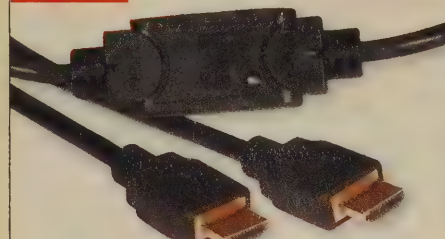
page 118



L-com Digital Signage
Distribution System
Item # 6100XXX-L Series

Starting at
\$179⁰⁰

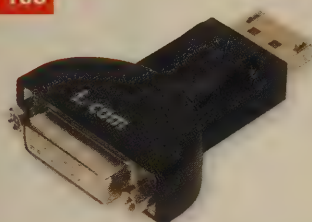
page 103



HDMI Repeater Cables
Item # RHDMM-M Series

Starting at
\$86⁶⁷

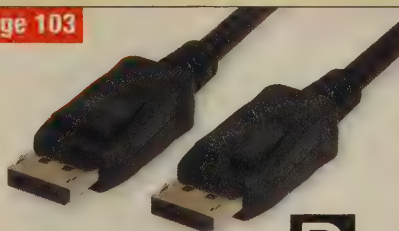
page 103



DisplayPort adapter,
DP Male to
DVI Female
Item # ADP-DVI-MF

Starting at
\$30⁵⁰

page 103



DisplayPort
high definition
audio/video cables
Item # DPCAMM Series

Starting at
\$24⁹⁹

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3.5mm audio
bulkhead coupler
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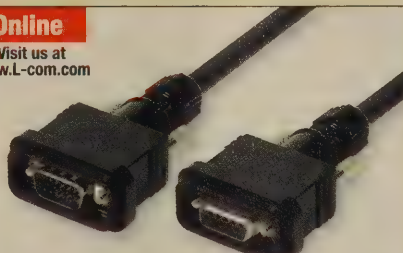


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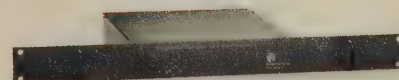
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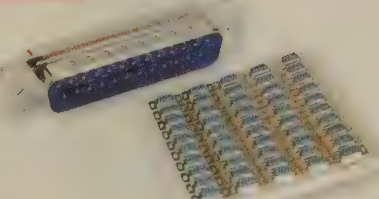
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with IP Ethernet
control, non-latching
Item # 6100905

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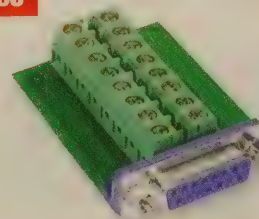
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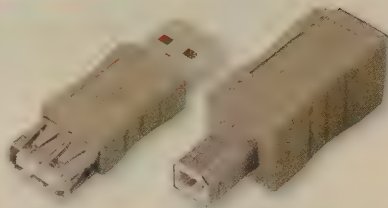
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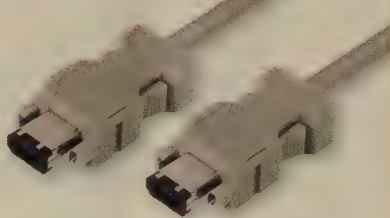
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adapters, molded and
fully shielded
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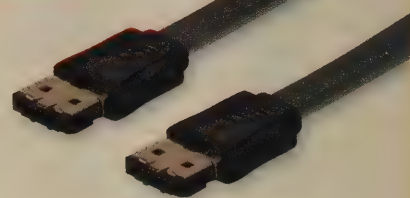
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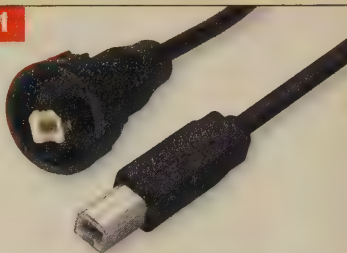
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antenna with
7 degree down-tilt
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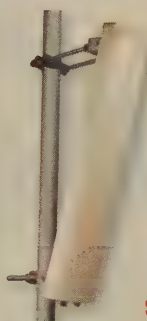
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dish antenna
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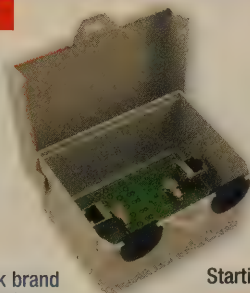
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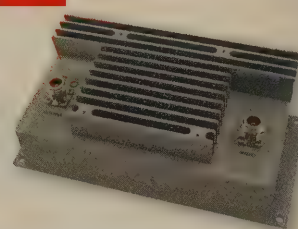
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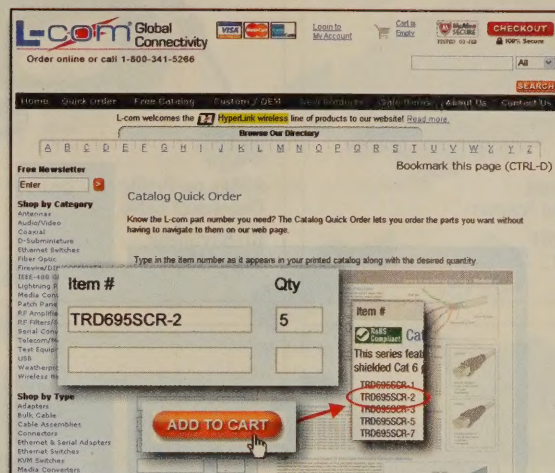
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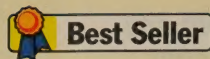
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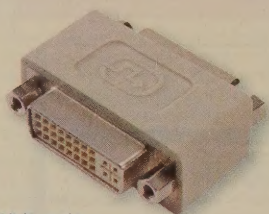
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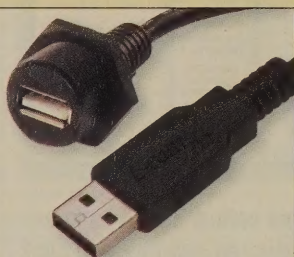
SVGA Low Profile Disconnect Cable
CTLB3VGAMM
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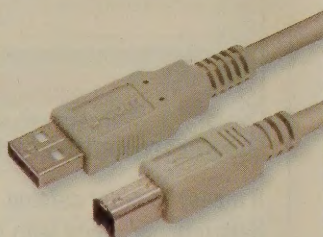
Premium Molded D-Sub Cable Assemblies
CS2N Series
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DIN and Mini DIN Feed-Thru Adapters
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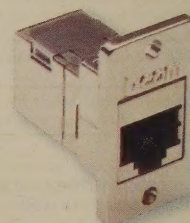
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WPUSBAX Series
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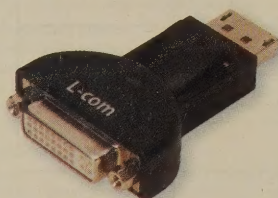
Premium USB Cable Assemblies
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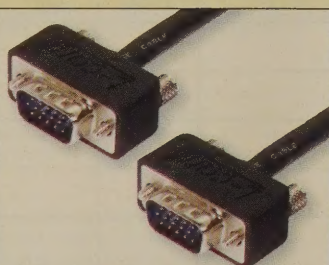
SecureSwitch® SC Fiber A/B/C Switch
5101180
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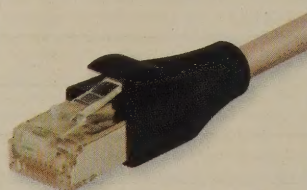
Fully Shielded Cat 5E Coupler
ECF504-SC5E
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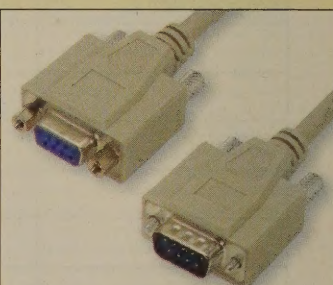
DisplayPort Adapter, DP Male to DVI Female
ADP-DVI-MF
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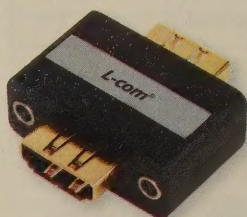
Super Thin SVGA Cables with 3 Mini Coaxial Lines
CTL3VGAMM Series
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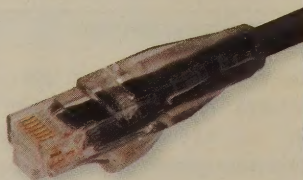
Double Shielded Cat 5E Compliant Patch Cable
TRD855SIG-7
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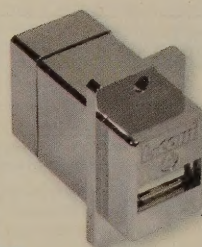
Deluxe D-Sub Cable Assemblies
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HDMI Adapter, Female to Female
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Cat 5E Patch Cord with Snagless Boot
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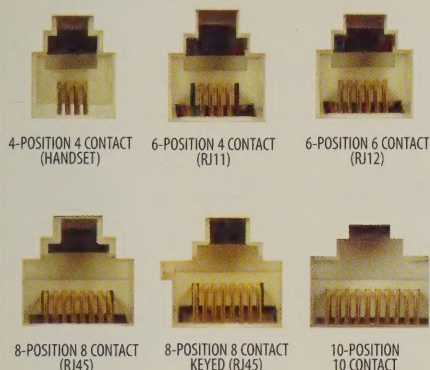


USB A-B Shielded Coupler
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Slimline Socket Saver, DB9 Male/Female
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Modular Jacks



Mini DIN and DIN Connectors



D-Subminiature Connectors



Fiber Optic Connectors

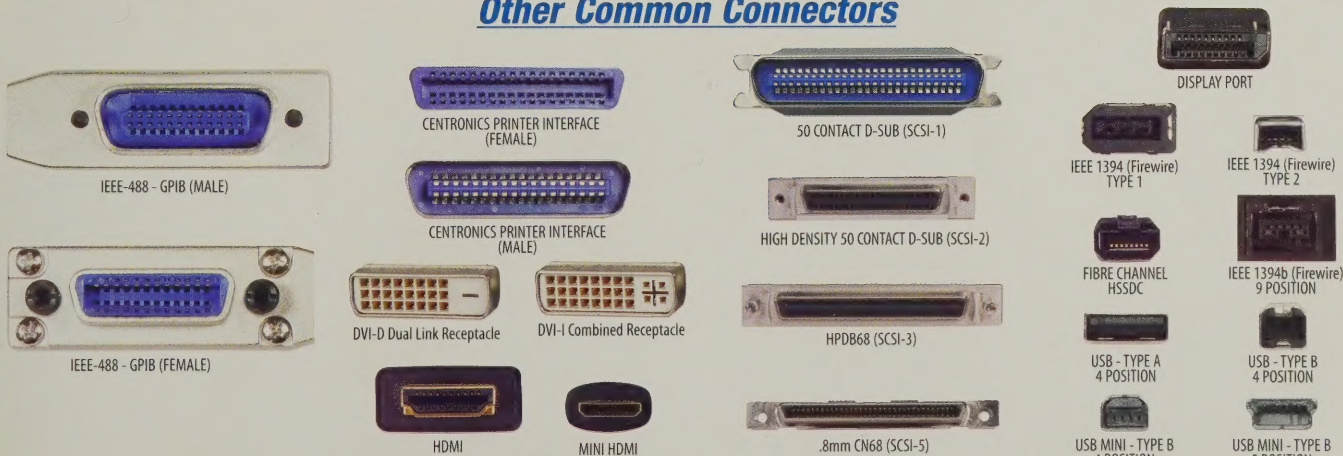


Coaxial Connectors



*See L-com.com for actual models this connector is compatible with.

Other Common Connectors



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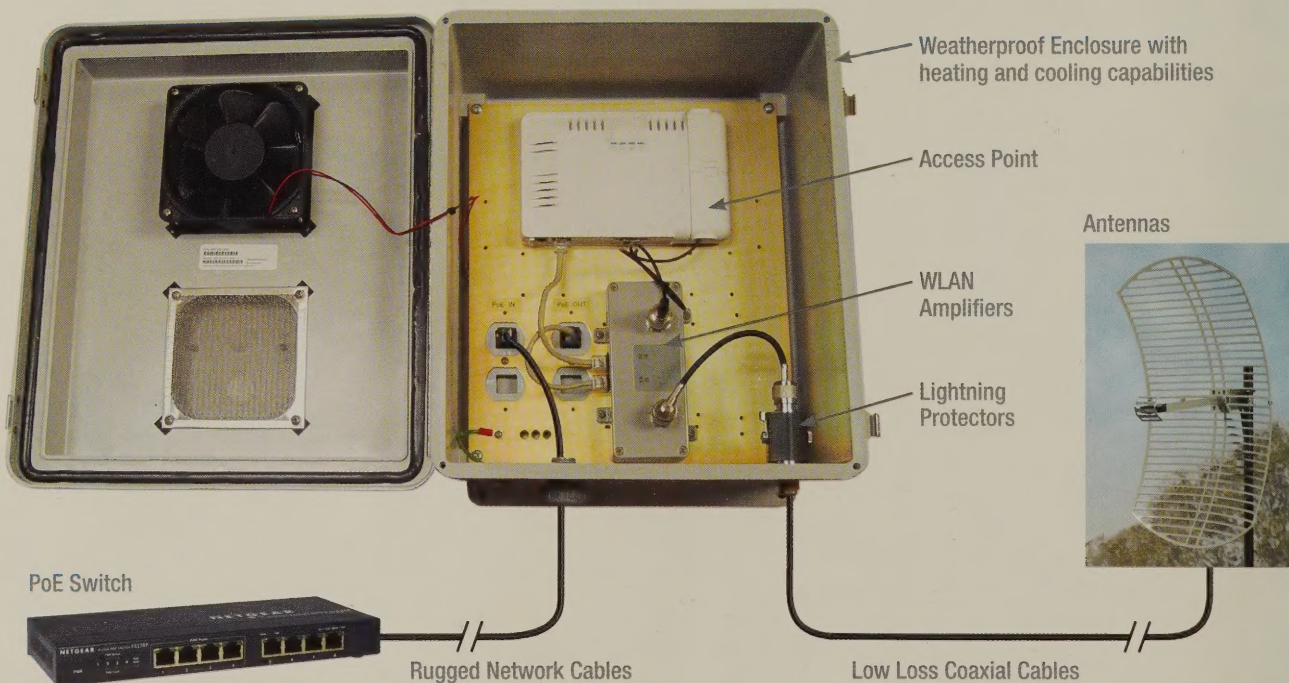
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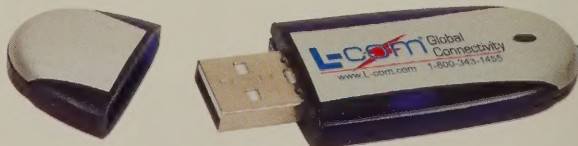


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